17009 CITY OF CHARLESTON, S.C. 00000 GENERAL 23 MAY 1994

281163 Invoice Number 2 Page

TOTAL AMOUNT OF THIS INVOICE

\$22,490.24

PRIOR BALANCE DUE

\$58,616.59

TOTAL BALANCE DUE UPON RECEIPT

\$81,106.83

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58616,59

LG010165 CONFIDENTIAL

All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

2:06-cv-02627-CWH Date Filed 01/26/09 Entry Number 110-8 Page 2 of 64

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticul Avenue, N.W. Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395 Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON P.O. BOX 304 CHARLESTON, SC 29402 Invoice Number 278380
Invoice Date 04/21/94
Client Number 17009
Matter Number 00001

ATTN: ADELAIDE MYRICK, ESQ.

Re: POTENTIAL COST RECOVERY IN CONNECTION WITH AQUARIUM AND RELATED PROJECTS.

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 MAR 1994

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	5.5 at	\$310 =	1,705.00
RG EDWARDS	20.4 at	\$165 =	3,366.00
CS KING	9.2 at	\$265 =	2,438.00

CURRENT FEES

7,509.00

FOR DISBURSEMENTS AND CHARGES:

DUPLICATING SUMMARY MEALS

37.40 110.00

CURRENT DISBURSEMENTS AND CHARGES

147.40

TOTAL AMOUNT OF THIS INVOICE

\$7,656.40

PRIOR BALANCE DUE

\$1,998.00

Appropul for Payment. 5/3/94

LG010166 CONFIDENTIAL

Re.

\Guavin

SCANA018035

P

17009 CITY OF CHARLESTON 00001 COST RECOVERY 21 APR 1994 Invoice Number 278380 Page 2

TOTAL BALANCE DUE UPON RECEIPT

\$9,654.40

All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

CONFIDENTIAL

LG010167

ARENT FOX KINTNER PLOTKIN & KAHN

1060 Connecticut Avenue, N.W.

Washington, D.C. 20036-5339

Telephone: (202) 867-6000 Telecopy: (202) 857-6395 Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON, S.C.

P.O. BOX 304

CHARLESTON, SC 29402

Invoice Number Invoice Date 04/21/94

278379

Client Number

17009

Matter Number

00000

ATTN: ADELAIDE MYRICK, ESQ.

Re: MARITIME CENTER \$436.00, AQUARIUM \$21,417.00

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 MAR 1994

ATTORNEY TIME SUMMARY:

Attorney	Hours		Rate	Value
ML FLEISCHAKER	20.5	ar	\$310 =	6,355.00
LA BEDIG	55.7	at	\$195 =	10,861.50
RG EDWARDS	∠8.1	at	\$165 =	4,636.50

CURRENT FEES

21,853.00

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	0.52
LONG DISTANCE TELEPHONE	145.25
DUPLICATING SUMMARY	334.40
OVERTIME MEALS & CAB	5.50
DOCUMENT DESIGN SERVICES	25.00
OVERTIME EXPENSE 2X (SEC'Y)	240.00
FREIGHT/OVERNIGHT DELIVERY	. 10.75
OUT-OF-TOWN TRAVEL	2,690.00
PRINTING/BINDING	1.00
TELECOPIER	198.00

CURRENT DISBURSEMENTS AND CHARGES

3,650.42

SCA:

LG010168 CONFIDENTIAL

17009 CITY OF CHARLESTON, S.C. 00000 GENERAL 21 APR 1994 Invoice Number 278379 Page 2

TOTAL AMOUNT OF THIS INVOICE

\$25,503.42

PRIOR BALANCE DUE

\$64,626.32

TOTAL BALANCE DUE UPON RECEIPT

\$90,129.74

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24 994.41 50 9. 01

> LG010169 CONFIDENTIAL

All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

2:06-cv-02627-CWH Date Filed 01/26/09 Entry Number 110-8 Page 6 of 64

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W. Washington, D.C. 20036-6339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395

Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON, S.C.

P.O. BOX 304

CHARLESTON, SC 29402

Invoice Number 277677 03/23/94 Invoice Date 17009 Client Number

. Matter Number

00000

ATTN: ADELAIDE MYRICK, ESQ.

Re: MARITIME CENTER \$2,339.00 AQUARIUM \$26,365.50

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 28 FEB 1994

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	41.3 at	\$310 =	12,803.00
LA BEDIG	52.1 at	\$195 =	10,159.50
rRG. EDWARDS	34.8 at	· \$165 =	5,742.00

CURRENT FEES

28,704.50

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	5.15	-
LEXIS/WESTLAW	419.64	
LONG DISTANCE TELEPHONE	156.54	
DUPLICATING SUMMARY	112.00	
OVERTIME MEALS & CAB	5.00 .	
DOCUMENT DESIGN SERVICES	43.75	
AUTO, PARKING & TAXI	268.35	
FREIGHT/OVERNIGHT DELIVERY	25.50	
MRALS	124.89	•
OUT-OF-TOWN TRAVEL	1,015.00	J 6010455
TELECOPIER	127.50	LG010170 CONFIDENTIAL
OTHER	7.00	TOENTIAL

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17009 CITY OF CHARLESTON, S.C. 00000 GENERAL 23 MAR 1994

Invoice Number 277677 Page 2

LODGING OUT-OF-TOWN MEALS

446.15 52.18

CURRENT DISBURSEMENTS AND CHARGES

2,808.65

TOTAL AMOUNT OF THIS INVOICE

\$31,513.15

PRIOR BALANCE DUE

\$60,640.56

TOTAL BALANCE DUE UPON RECEIPT

\$92,153.71

LG010171 CONFIDENTIAL

All invoices are due upon receipt.

Balance due reflecte payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W. Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6396

Taxpayer Identification Number: 63-0214923

CITY OF CHARLESTON P.O. BOX 304 CHARLESTON, SC 29402 Invoice Number 277678
Invoice Date 03/23/94
Client Number 17009
Matter Number 00001

ATTN: ADELAIDE MYRICK, ESQ.

Re: POTENTIAL COST RECOVERY IN CONNECTION WITH AQUARIUM AND

RELATED PROJECTS.

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 28 FEB 1994

ATTORNEY TIME SUMMARY: Attorney	Hours		Rate	Value
ML FLEISCHAKER	5.1	at ·	\$310 =	1,581.00
RG EDWARDS	0.6		\$165 =	99.00
CS KING	1.2		\$265 =	318.00

CURRENT FEES 1,998.00

TOTAL AMOUNT OF THIS INVOICE \$1,998.00

PRIOR BALANCE DUE \$374.00

TOTAL BALANCE DUE UPON RECEIPT

\$2,372.00

. All Invoices are due upon receipt. LG010172 CONFIDENTIAL

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill,

Page 9 of 64

1050 Connecticut Avenue, N.W. Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395

Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON, S.C. P.O. BOX 304

CHARLESTON, SC 29402

Invoice Number 275067 02/28/94 Invoice Date Client Number 17009

Matter Number

00000

ATTN: ADELAIDE MYRICK, ESQ.

Re: MARITIME CENTER \$11,807.00, AQUARIUM \$13,576.00

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 JAN 1994

ATTORNEY TIME SUMMARY: Attorney	Hours	Rate	Value
ML FLEISCHAKER	34.3 at	\$310 =	10,633.00
LA BEDIG	5.9 at	\$195 =	1,150.50
MJ KELLEHER	2.3 at	\$80 =	184.00
FRG EDWARDS	80.7 at	\$165 =	13,315.50
M CHAM	0.8 at	\$125 =	100.00

CURRENT FEES

25,383.00

FOR DISBURSEMENTS AND CHARGES:

LONG DISTANCE TELEPHONE	198.20
DUPLICATING SUMMARY	70.80
CAR RENTAL	103.83
AUTO, PARKING & TAXI	65.65
FREIGHT/OVERNIGHT DELIVERY	35.25
MEALS	47,62
OUT-OF-TOWN TRAVEL	1,257.00
TELECOPIER	102.00

LG010173 CONFIDENTIAL 17009 CITY OF CHARLESTON, S.C. 00000 GENERAL 28 FEB 1994

Invoice Number 275067 Page 2

LODGING

OUT-OF-TOWN MEALS

207.42

56.62

CURRENT DISBURSEMENTS AND CHARGES

2,144.39

TOTAL AMOUNT OF THIS INVOICE

\$27,527.39

PRIOR BALANCE DUE

\$46,724.82

TOTAL BALANCE DUE UPON RECEIPT

\$74,252.21

Aguns MS 14648.20 12879.19 21527.35

All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill,

LG010174 CONFIDENTIAL

2:06-cv-02627-CWH Date Filed 01/26/09 Entry Number 110-8 Page 11 of 64

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W. Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 867-6395

Texpayer Identification Number: 53-0214923

CITY OF CHARLESTON P.O. BOX 304 CHARLESTON, SC 29402

Invoice Number 275068
Invoice Date 02/28/94
Client Number 17009
Matter Number 00001

ATTN: ADELAIDE MYRICK, ESQ.

Re: POTENTIAL COST RECOVERY IN CONNECTION WITH AQUARIUM AND RELATED PROJECTS.

•

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 JAN 1994

ATTORNEY TIME SUMMARY:
Attorney Hours Rate Value

ML FLEISCHAKER 1.1 at \$310 = 341.00

RRG:EDWARDS 0.2 at \$165 = 33.00

CURRENT FEES . 374.00

TOTAL BALANCE DUE UPON RECEIPT \$374.00

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LG010175 CONFIDENTIAL

All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W. Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395 Texpayer Identification Number: 53-0214923

JAMES W. ETHEREDGE
DIRECTOR OF ADMINISTRATIVE SERVICES
CITY OF CHARLESTON
P.O. BOX 304
CHARLESTON, SC 29402

Invoice Number 272032
Invoice Date 01/20/94
Client Number 17009
Matter Number 00000

Re: MARITIME CENTER \$1,369.50, AQUARIUM \$11,059.00

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 DEC 1993

ATTORNEY TIME SUMMARY: Attorney	Hours	Rate	Value
ML FLEISCHAKER	8.9 at	\$305 =	2,714.50
LA BEDIG	7.2 at 50.8 at	\$185 = \$165 =	1,332.00 8,382.00

CURRENT FEES 12,428.50

FOR DISBURSEMENTS AND CHARGES:

LONG DISTANCE TELEPHONE	130.79
DUPLICATING SUMMARY	52.40
DOCUMENT DESIGN SERVICES	12.50
AUTO. PARKING & TAXI	85.83
FREIGHT/OVERNIGHT DELIVERY	49.75
OUT-OF-TOWN TRAVEL	717.00
TELECOPIER	126.00
OUT-OF-TOWN MEALS	8.88

CURRENT DISBURSEMENTS AND CHARGES 1,183.15

LG010176 CONFIDENTIAL 17009 JAMES W. ETHEREDGE 00000 GENERAL 20 JAN 1994

Invoice Number 272032 Page 2

TOTAL AMOUNT OF THIS INVOICE

\$13,611.65

PRIOR BALANCE DUE

\$33;113.17

TOTAL BALANCE DUE UPON RECEIPT

\$46,724.82

Aguny

11650,58

LG010177 CONFIDENTIAL

All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this metter not shown above will appear on next month's bill,

. UX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W. Washington, D.C. 20036 5320

Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395 Taxpayer Identification Number: 53-0214923

14/39

CITY OF CHARLESTON, S.C. C/O REGAN AND CANTWELL P. O. BOX 1001 18 BROADSTREET, SUITE 610 CHARLESTON, SC 19402

Invoice Number 270605 Invoice Date 12/21/93 Client Number 17009 Matter Number 00000

ATTN: WILLIAM B. REGAN, ESQ.

Re MARITIME CENTER \$7,135.00 PUMP STATION \$627.00 AQUARIUM

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 30 NOV 1993

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate	Value
ML FLEISCHAKER	12.0 at	\$305 =	3,660.00
LA BEDIG	38.7 at	\$185 =	7,159.50
RGMEDWARDS	79.6 at	\$165 =	13,134.00

CURRENT FEES

23,953.50

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	
LONG DISTANCE TELEPHONE	1.04
DUPLICATING SUMMARY	177.91
OVERTIME MEALS & CAB	188.40
OVERTIME EXPENSE (SECRETARY)	53.00
WORD PROCESSING-SUPPORT	330.00
AUTO, PARKING & TAXI	218.75
FREIGHT/OVERNIGHT DELIVERY	37.10
MEALS	132.50
OUT-OF-TOWN TRAVEL	10.23
TELECOPIER	631.00
**************************************	139.50



LG010178 CONFIDENTIAL

., CITY OF CHARLESTON, S.C. 00000 GENERAL 21 DEC 1993

Invoice Number 270605 2 Page

LODGING

171.72 10.24

OUT-OF-TOWN MEALS

2,101.39

CURRENT DISBURSEMENTS AND CHARGES

TOTAL AMOUNT OF THIS INVOICE

\$26,054.89

PRIOR BALANCE DUE

\$72,499.49

TOTAL BALANCE DUE UPON RECEIPT

\$98,554.38

Agur MS 16891.97
0F 1122.46
0P 1835.46
26054.89

All invoices are due upon receipt.

Balance due reflecte payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

OCT 04 '94 08:09AM RHODES/DAHL 408 647 8517

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ARENT I W KINTNER PLOTKIN & KALIN

1050 Connecticut Avenue, N.W. Weehington, D.C. 20036-5339

Telephone: (202) 857-5000 Telecopy: (202) 857-6395

Texpayer Identification Number: 53-0214923

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SFP 1 6 1994

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CITY OF CHARLESTON, S.C. C/O REGAN AND CANTWELL P. O. BOX. 1001 18 BROADSTREET, SUITE 610 CHARLESTON, SC 19402

ATTN: WILLIAM B. REGAN, REQ.

267679 Invoice Number 11/19/93 Invoice Date Client Number 17009 00000 Matter Mumber

Re: MARITIME \$5,725.50; AQUARIUM, \$23,765.00

POR PROFESSIONAL SERVICES RENDERED: THROUGH 31 OCT 1993

ATTORNEY TIME SUMMARY: Attorney	Hours	Rate	Value
ML FLEISCHAKER	18.9 at	\$305 =	5,764.50
4. DERTA	51.1 at	\$185 =	9,453.50
A BEDIG	46615 atv	\$165 -	10,972.50
CG KING	15.0 at	\$220 =	3,300.00

CURRENT FEES

29,490.50

FOR DISBURSEMENTS AND CHARGES:

7.30
230.07
175.00
5.00
30.00
19.25
2,831.50
1.50
319.50
3.55

LG010180 CONFIDENTIAL OCT 04 '94 08:099M RHODES/DAHL 408 647 8517

Invoice Number 267679 Page 2

17009 CITY OF CHARLESTON, S.C. 00000 GENERAL 19 NOV 1993

CURRENT DISBURSEMENTS AND CHARGES

3,622.67

TOTAL AMOUNT OF THIS INVOICE

\$33,113.17

PRIOR BALANCE DUE

\$39,386.32

TOTAL BALANCE DUE UPON RECEIPT

72,499.49

LG010181 CONFIDENTIAL 2:06-cv-02627-CWH Date Filed 01/26/09 Entry Number 110-8 Page 18 of 64

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W. Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395

Texpayer Identification Number: 53-0214923

P

CITY OF CHARLESTON, S.C. C/O REGAN AND CANTWELL P. O. BOX 1001 18 BROADSTREET, SUITE 610 CHARLESTON, SC 19402 Invoice Number 264622
Invoice Date 10/27/93
Client Number 17009
Matter Number 00000

ATTN: WILLIAM B. REGAN, ESQ.

Re: MARITIME \$11,310.50; INSURANCE \$2,278.50; PUMP STATION \$550.50; AQUARIUM, \$22,379.00

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 30 SEP 1993

ATTORNEY TIME SUMMARY:

Attorney	Hours		Rate	Value
Accorney	 			
ML FLEISCHAKER	33.0	at	\$305 =	10,065.00
	0.2	at	\$195 =	39.00
LE BLATNIK	10.9	at	\$185 =	2,016.50
LA BEDIG			* = = =	24.288.00
RG EDWARDS	147.2	at	\$165 =	
CS KING	0.5	at	\$220 =	110.00

CURRENT FEES

36,518.50

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	3.34
LONG DISTANCE TELEPHONE	147.91
DUPLICATING SUMMARY	316.00
AUTO, PARKING & TAXI	104.00
FREIGHT/OVERNIGHT DELIVERY	18.75
MEALS	122.48
OUT-OF-TOWN TRAVEL	1,731.50

LG010182 CONFIDENTIAL

17009 CITY OF CHARLESTON, 00000 GENERAL 27 OCT 1993	s.c.	Invoice Number 26- Page 2	4622
PRINTING/BINTELECOPIER OTHER LODGING OUT-OF-TOWN		2.00 265.50 1.00 110.16 45.18	
CURRE	NT DISBURSEMENTS AND CHARG	ES 2,8	67.82
·	TOTAL BALANCE DUE UPON R	ECEIPT \$39,3	

23095.94 Agranium MS GF DP 2995.46 12027.46 1267,46 39386.32

LG010183

All invoices are due upon receipt.

Balance due reflecte paymente received through involce date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

2:06-cv-02627-CWH Date Filed 01/26/09 Entry Number 110-8 Page 20 of 64

1050 Connecticut Avenue, N.W. Washington, D.C. 20036-6339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395 Taxpayer Identification Number: 53-0214923

P

CITY OF CHARLESTON, S.C. C/O REGAN AND CANTWELL P. O. BOX 1001 18 BROADSTREET, SUITE 610 CHARLESTON, SC 19402 Invoice Number 263099
Invoice Date 09/27/93
Client Number 17009
Matter Number 00000

ATTN: WILLIAM B. REGAN, ESQ.

Re: MARITIME \$8,374.50; INSURANCE \$5,482.50; PUMP STATION \$841.50; AQUARIUM, AND RELATED MATTERS \$18,762.00

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 AUG 1993

ATTORNEY TIME SUMMARY:	Hours	Rate	Value
ML FLEISCHAKER	44.1 at	\$305 =	13,450.50
LL BEDIG	23.7 at	\$185 =	4,384.50
RG EDWARDS	94.7 at	\$165 =	15,625.50

CURRENT FEES 33,460.50

FOR DISBURSEMENTS AND CHARGES:

POSTAGE	0.29
LONG DISTANCE TELEPHONE	267.11
DUPLICATING SUMMARY	142.20
OVERTIME MEALS & CAB	5.50
OVERTIME EXPENSE (SECRETARY)	82.50
MICROFICHE DUPLICATION	13.50
AUTO, PARKING & TAXI	141.80
FREIGHT/OVERNIGHT DELIVERY	10.75
OUT-OF-TOWN TRAVEL	698.00
TELECOPIER	649.50
LODGING	460.37

LG010184 CONFIDENTIAL 17009 CITY OF CHARLESTON, S.C. 00000 GENERAL 27 SEP 1993 Invoice Number 263099 Page 2

OUT-OF-TOWN MEALS	33.89	
CURRENT DISBURSEMENTS AND CHARGES		2,505.41
TOTAL AMOUNT OF THIS INVOICE		\$35,965.91
PRIOR BALANCE DUE		\$19,231.93
TOTAL BALANCE DUE UPON RECEI	PT	\$55,197.84

Agreen MS 33871,71 DF 2094,20 35965.81

PAID

LG010185 CONFIDENTIAL

All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

OX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W. Washington, D.C. 20036-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395 Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON, S.C. C/O REGAN AND CANTWELL P. O. BOX 1001 18 BROADSTREET, SUITE 610 CHARLESTON, SC 19402

Invoice Number 257962 Invoice Date 07/27/93 Client Number 17009 Matter Number 00000

ATTN: WILLIAM B. REGAN, ESQ.

Re: AQUARIUM PROJECT (\$32,598.00); PUMP STATION (\$2,610.00)

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 30 JUN 1993

ATTORNEY TIME SUMMARY:

Attorney	Hours	Rate
ML FLEISCHAKER	57.9 at	\$305
LE BLATNIK	0.2 at	\$195
LL BEDIG	29.1 at	\$185
RG EDWARDS	77.9 at	\$150
AS SHIFFLETT	6.3 at	\$70

CURRENT FEES

35,208.00

FOR DISBURSEMENTS AND CHARGES:

POSTAGE		6.67
LEXIS/WESTLAW	-	1,030.07
LONG DISTANCE TELEPHONE		
		103.16
MESSENGER	-	32.50
DUPLICATING SUMMARY		142.20
OVERTIME MEALS & CAB		11.00
OVERTIME EXPENSE (SECRETARY)		195.00
DATA BASE SEARCH		9.32
AUTO, PARKING & TAXI		216.10
FREIGHT/OVERNIGHT DELIVERY		
		17.50

LG010186 CONFIDENTIAL



17009 CITY OF CHARLESTON, S.C. 00000 GENERAL 27 JUL 1993 Invoice Number 257962 Page 2

2,376.35

MEALS	9.00
TELECOPIER	345.00
OTHER	2.00
LODGING	231.12
OUT-OF-TOWN MEALS	25.71

CURRENT DISBURSEMENTS AND CHARGES

TOTAL AMOUNT OF THIS INVOICE \$37,584.35

PRIOR BALANCE DUE \$31,538.23

TOTAL BALANCE DUE UPON RECEIPT \$69,122.58

Agricum MS 33786.18 DF 3.798.17 37584.35

> LG010187 CONFIDENTIAL



All invoices are due upon receipt.

Balance due reflects payments received through invoice date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

ARENT FOX KINTNER PLOTKIN & KAHN

1050 Connecticut Avenue, N.W. Washington, D.C. 20038-5339

Telephone: (202) 857-6000 Telecopy: (202) 857-6395 Taxpayer Identification Number: 53-0214923

CITY OF CHARLESTON, S.C. C/O REGAN AND CANTWELL P. O. BOX 1001 18 BROADSTREET, SUITE 610 CHARLESTON, SC 19402 Invoice Number 256838
Invoice Date 06/25/93
Client Number 17009
Matter Number 00000

ATTN: WILLIAM B. REGAN, ESQ.

Re: AQUARIUM PROJECT (\$20,000.00); PUMP STATION (\$10,000.00);
DENTYN SITE (\$3,333.50)

FOR PROFESSIONAL SERVICES RENDERED: THROUGH 31 MAY 1993

ATTORNEY TIME SUMMARY: Attorney	Hours	; 	Rate	Value
ML FLEISCHAKER	37.6	ąt	\$305 =	11,468.00
LIBRARY	1.3	at	\$80 =	104.00
LL BEDIG	52.9	at	\$185 =	9,786.50
RG EDWARDS	79.3	at	\$150 =	11,895.00
AS SHIFFLETT	0.8	at	\$70 =	56.00
M SHAW	"* 0.2	at	\$120 🖨	24.00

ADJUSTMENT TO FEES -2,333.50
CURRENT FEES 31,000.00

FOR DISBURSEMENTS AND CHARGES:

LONG DISTANCE TELEPHONE DUPLICATING SUMMARY AUTO, PARKING & TAXI 65.09 153.20 36.88

LG010188 CONFIDENTIAL

PAID

17009 CITY OF CHARLESTON, S.C. 00000 GENERAL 25 JUN 1993 Invoice Number 256838 Page 2

MEALS TELECOPIER OUT-OF-TOWN MEALS

106.48 171.00 5.58

CURRENT DISBURSEMENTS AND CHARGES

538.23

TOTAL BALANCE DUE UPON RECEIPT

\$31,538.23

Aquerium MS 19401.58 DP 2735.07 DF 9401.58

> LG010189 CONFIDENTIAL

All involces are due upon receipt.

Balance due reflects payments received through involce date.

Any time, disbursements, and charges relating to this matter not shown above will appear on next month's bill.

SCHEDULE L

TITLE	Environmental Monitoring During Construction
AMOUNT	\$703,000.
ATTACHMENTS	L-1 Monitoring and Response Plan L-2 Demonstration Guidelines L-3 Monitoring Chart L-4 24 April 95 Killam Associates letter (Suler to Shakespear)
EXPLANATION	The Environmental Monitoring and Response Plan (Attachment L-1) was developed by Killam Associates, with extensive agency input and review, to respond to the presence of contaminants on the SCA site. Conformance with this Plan is mandated by the terms of the lease between the City and the NPS. In addition, a Demonstration Program (Attachment L-2), with additional monitoring requirements, must be successfully completed in the initial phase of the construction. In order to comply with these requirements, the services for Environmental Inspection during construction will be required (full-time from the beginning of the construction contract until completion of foundation work and basement slabs and part-time for follow-up monitoring). The samples collected as part of the monitoring will need to be analyzed by a laboratory. In addition, Killam Associates and FR Harris will be needed to provide construction administration (CA) services for the Containment System (Attachment R-1). Note: "Containment" and other items referred to in Killam letter (item # 5, 6, and 7) are addressed on Schedule R. Attached is chart summarizing the various requirements of Monitoring and Response Plan. The column on the right lists estimated costs for the various components. The totals are as follows: 1. Analytical Chemistry Work: \$278,000.
	1. Analytical Chemistry Work: \$278,000. 2. Environmental Inspection: \$355,000. 3. Diver: \$20,000.

CONSTRUCTION

CA on Containment System:

Taplared Housey Costs?

\$50,000.

Estimated Cost Increases Due to SCE & G Contamination - Schedule L

LG010938 CONFIDENTIAL SCHEDULE L: ENVIRONMENTAL MONITORING DURING CONSTRUCTION

1 ANALYTICAL LAB WORK (ESTIMATE PER KILLAM ASSOC)

137,500 150,000

2 ENVIRONMENTAL INSPECTOR INCLUDES REVIEW OF SUBMITTALS, FIELD OBSERVATION, MONITORING PROCEDURES, FIELD JUDGMENT, AND **CLOSE-OUT MONITORING AND REPORT** 3 DIVER: 38 INSPECTIONS @ \$500 EA

<u>19,000</u>

306,500

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LG010190 CONFIDENTIAL

SCHEDULE R

TITLE	Site, Building and Exhibits Construction Cost
AMOUNT	\$ 9,409,912.
ATTACHMENTS	R-1 SCA 100% C.D. Estimate, Apr '93, OLI R-2 Construction Cost Escalation Due to Delay, 4/26/95, OLI R-3 24 April 95 Killam Associates letter (Suler to Shakespear) R-4 Calculation Sheet: HASP Cost R-5 Calculation Sheet: Excavation Disposal Costs R-6 Calculation Sheet: Demonstration Program Costs R-7 Containment System R-8 Health and Safety Plan Specifications
EXPLANATION	 Escalation cost due to first delay of SCA construction start (from January 92 to June 93) due to presence of contaminants on site: see Attachment R-2: \$ 1,363,426 Escalation cost due to second delay of SCA construction start (from June 93 to August 95) due to presence of contaminants on site: see Attachment R-2:

TOTAL INCREASE TO SITE, BUILDING, AND EXHIBITS CONSTRUCTION COST:

\$ 9,409,912

f. De-watering Costs: The construction of the Aquarium will require dewatering to allow for excavation and the construction of the foundation. The presence of contaminants in the groundwater will require that effluent from any dewatering be monitored, pre-treated, and disposed via the sanitary sewer system (rather than pumping directly into the river or re-charging the groundwater). Based on consultation with Griffin Dewatering Corporation, the estimated volume to be pumped from a 1,000 foot well-point system designed for typical construction is 100 gal/min, which is approximately 1 million gallons per week, or 30 million gallons over a seven-month foundation-construction period. This converts to 40,110 hundred-cubic-feet (CCF). The prime rate for discharge into the Charleston Public Works sanitary sewer is \$3.11/CCF. The resultant raw cost would be \$125,000. Hook-up fees, increased dewatering to maintain an upward hydraulic gradient while driving piles, pre-treatment, piping, manifolding, and monitoring are expected to increase this amount by a factor of

ESTIMATED INCREASED COST OF DEWATERING: \$250,000.

Subtotal, a through f, with bonding, insurance, fee, and contingency: \$ 4,934,121

g. Demonstration Program Costs: The Demonstration Program required by the Lease and permit conditions to verify to the Containment System will require an increase in the schedule of 4.5 months (see Schedules A and B attached to R-6), as well as a remobilization after the decision period. See Attachment R-6 for calculations of the resultant increase of Contractor General Conditions due to extension of general construction contract caused by Demonstration Program.

EST. INCREASED COST DUE TO DEMONSTRATION PROGRAM:

\$ 395,833

GROSS TOTAL, SPECIAL PROJECT PROCEDURES:

\$ 5,329,954

EXPLANATION CONTINIUED

SPECIAL PROJECT CONDITIONS EXPLANATION

a. Temporary Utilities: The presence of free product from the former MGP in the utilities right-of-way has caused the NPS to require that all utilities be installed above ground until such time as all response actions (including but not limited to removal of product or impacted soils) are completed on the NPS property or the Landlord determines that earlier installation will not pose a threat to human health or the environment. Without this restriction, the construction schedule calls for undergrounding the utilities (including water supply, sanitary sewer, primary electrical, telephone and CTV, and gas) at the start of the construction. The contractor would then have access to all utilities required during construction on-site, rather than 300 feet away at Concord St. With this restriction, the contractor will need to maintain temporary hook-ups, including hundreds of feet of hoses running to fire hydrants and sanitary sewer manholes, for an estimated 18 months from the notice to proceed. In addition, the trenching for permanent utilities will require a second mobilization of the Special Project Procedures, since the intrusive work (ie. excavation and foundation) will have been completed. This will entail setting up the procedures listed in Item 3 (including an EZ, a CRZ, a De-Con area, Medical Consultant and exams, etc.) below for a second time. The following figure is a verbal estimate from Oppenheim Lewis Inc (cost estimators for the SCA):

EST. INCREASED COST DUE TO TEMPORARY UTILITIES:

b. Containment System (Attachment R-8): this system was developed by Killam Associates, with extensive agency input and review, to respond to the presence of contaminants on the SCA site. Its implementation is mandated by the terms of the lease between the City and the NPS, and by the terms of the Corps' and OCRM-DHEC's permits for the Aquarium construction. Included in this containment system are the following components: Silt Curtain and Absorbent Boom, Steel Pile and Timber Lagging Wall, and Sand Blanket. See Item 5 of Attachment R-3 for details and cost calculations.

EST. WATERSIDE CONTAINMENT SYSTEM COST: \$366,500.

EXPLANATION CONTINUED

c. Worker Health and Safety (Attachment R-9): Detailed specifications for the General Contractor's HASP were developed by Killam Associates with extensive agency input and review, to protect workers from contaminants on the SCA site. An Exclusion Zone (EZ), a Contaminant Reduction Zone (CRZ), a Support Zone, a Medical Consultant, hazardous waste training (initial, follow-up, and refresher) and record-keeping, medical exams of all employees before and after work in EZ or CRZ, medical record-keeping, Personnel Protection Equipment (PPE), laundering and/or disposal of PPE, air monitoring, equipment decontamination, emergency shower and eye-wash In addition, Landside Erosion Control measures (such as crushed-stone topping, seeding, mulching, silt fencing, hay bales, geo-textile erosion control matting, stormwater collection basin, vehicle decontamination facilities and protocols) are specified to prevent migration of contaminants from the site. Conformance with both of these specifications is also mandated by the terms of the lease between the City and the NPS. These measures add cost to the project. Per Killam Associates (Attachment R-3, Item 6), the cost increase is 20% to 30% over the value of the work on an uncontaminated site. See Attachment R-4 for calculations.

ESTIMATED INCREASED COST DUE TO HASP:

\$1.511.900.

- d. Response Plan: Included in the Environmental Monitoring and Response Plan (Attachment L-1) developed by Killam Associates are measures to respond to potential releases of contaminants present on the SCA site. Conformance with this Plan is mandated by the terms of the lease between the City and the NPS. Measures include maintaining a stocked Response Kit, immediate deployment of such in the event of a release, notification procedures, employment of an emergency response firm in the event of a substantial release, and upgrading of containment system components if needed. Estimated cost was provided by Killam Associates (Attachment R-3, Item 7): ESTIMATED RESPONSE PLAN COST: \$20,000.
- e. Dump Fees: The construction of the Aquarium will require the excavation and removal of an estimated 8,250 cubic yards of soil (Attachment R-5). The presence of contaminants in this soil will require analytical, transportation, and disposal costs in excess of the same for clean soils. It is presumed from previous experience that most of the excavated materials will classify as Special Wastes (not Hazardous Wastes) per SCDHEC's regulations. The cost for this work is estimated using a mid-range number between quotes ranging from a low of \$70/cy to a high of \$500/cy (Attachment R-7).

This estimated \$250 per cubic yard can be compared to costs incurred in disposing of 95 cubic yards of drilling wastes from the Killam Site Investigation. Six competitive bids were received for this work; the successful low bid netted an inclusive unit cost of \$547, per cubic yard. The \$250/cy figure reflects an anticipated economyof-scale reduction of over fifty percent.

ESTIMATED DISPOSAL COSTS:

\$2,063,500.

SCHEDULE R: BUILDING & SITE CONSTRUCTION COSTS

1 INFLATION FOR FIRST DELAY (SEE ATTACHED)	1,832,636
2 INFLATION FOR SECOND DELAY (SEE ATTACHED)	1,955,812

3 SPECIAL PROJECT CONDITIONS WITH GENERAL CONDITIONS AND FEE (SEE BELOW) 4.829.130 8,617,578

150,000

SPECIAL PROJECT CONDITIONS:
TEMPORARY UTILITIES

CONTAINMENT 500,000
WORKER HEALTH & SAFETY 500,000
RESPONSE PLAN 100,000

DUMP FEES 2,000,000
DEWATERING 280.000
3,530,000

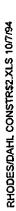
SURCHARGE FOR DEMO PILE PROGRAM SLOWDOWN 250,000 3,780,000

X GENERAL CONDITIONS OF 8.95% AND FEE OF 4% 610.118

4,390,118
OWNER'S CONTINGENCY @ 10%
439,012

WNER'S CONTINGENCY @ 10% 4,829,130

LG010201 CONFIDENTIAL



Jan-95 21,849,606 22,942,087 23,515,639 24,089,191 25,293,651 Jan-94 1,832,636 6.784.942 616.813 6,784,942 4,390,118 1,778,011 7.56% Jun-93 SECOND DELAY & CONTAMINATION FIRST DELAY COST 166.603 1,832,636 7.63% Jan-93 1,666,033 1992 START JAN CONSTR SPECIAL CONDITIONS WITH 8.95% OWNERS CONTINGENCY @ 10% CURRENT BUILDING WITH 8.95% GENERAL CONDITIONS AND 4% **GENERAL CONDITIONS AND 4%**

LG010202 CONFIDENTIAL

8,617,578

TOTAL DELAY COSTS

SCHEDULE W

TITLE	Special Landscaping Requirements
AMOUNT	\$2,728,000
ATTACHMENTS	W-I Calculation Sheet, Itemization of Costs
EXPLANATION	The land between the Aquarium and Concord Street is planned as an urban park, or front yard to the Aquarium. Given the presence of contamination in the soils and groundwater in this area, and the understanding that capping will be part of the remedial design, special means will be required to landscape the site. Portions are to be "hard-scaped" with pavers, such as bluestone, and other areas are to be "soft-scaped" with plantings (similar in concept to Waterfront Park). The pavers with a surface drainage system function as a cap and the planted areas can be made to act as a cap with the inclusion of a clay liner and surface-soil drainage system. The cost of hard-scaping is higher; the attached worksheet assumes the entire area would be soft-scaped for a baseline cost to cap the area. Absent the contamination, the land would be graded and some fill
	(topsoil) would be imported in order to prepare for planting. Drainage of the landscaped areas would be by natural percolation through the soils. Due to contamination, the following additional costs will be incurred: 1. Clay liner: approx. 6 inches 2. Drainage system for soils above clay liner: drainage mat and
	piping. Clean fill: a two-foot thickness of arable soil is needed over the clay liner to support the landscaping. Absent contamination, approximately one foot of fill would have been needed; the difference is one foot.
	4. Excavation: A build-up over the entire site of two-and-one-half feet is not acceptable, as it would create cost, access, and visual problems. Eighteen inches is the most that can be tolerated, resulting in a need to excavate one foot prior to installation of the clay liner.

Estimated Cost Increases Due to SCE & G Contamination - Schedule W

LG011100 CONFIDENTIAL

SCHEDULE W: SPECIAL REQUIREMENTS FOR LANDSCAPING OR PLANTING AT AQUARIUM & NPS SITE

- 1 PARK SITE 4 ACRES
- 2 4 ACRES X 43,000 SF = 172,000 SF
- 3 172,000 SF @ 1' DEPTH = 172,000 CF
- 4 172,000 CF DIV BY 27 = 6,370 CY OF SOIL

5 6,370 CY SOIL X \$250/CY SPECIAL DISPOSAL 1,592,500

3 172,000 SF OF CLAY LINER @ \$4/SF 688,000

172,000 SF DRAINAGE SYSTEM @ \$.75/SF 129,000

8 6,370 CY X 2 = 12,740 CY OF CLEAN FILL @ 318.500

TOTAL COST (\$15.86/SF)

2,728,000

DISCUSSION:

IT WILL COST MORE TO DEVELOP THE PARK-ENTRANCE TO THE AQUARIUMNPS FACILITY BECAUSE OF THE SITE CONTAMINATION. THE CONCEPT ABOVE ALLOWS FOR INTENSE LANDSCAPING OF THE ENTIRE SITE. SHOULD THE CITY AND THE NPS ELECT TO USE MORE HARDSCAPE, SQUARE-FOOT ALLOWANCE OF \$15.88 MAY BE ADEQUATE TO COVER THIS APPROACH.

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11/17 '94 16:53 CONFIDENTIAL

Garage

SCHEDULE AA

Garage Construction Surcharge	
\$2,343,131.	
AA-1 Calhoun Park Site Plan (Concept) AA-2 Calculation sheet	
Development plans for the Calhoun Park tract (approximately 154,845 SF total) call for a 1,000 car parking structure, access paving, paved parking for buses, and landscaping (Attachment AA-1). The proposed parking garage will be a structure of roughly 117 ft by 505 ft. The garage will cover an estimated 59,100 SF, and an additional estimated 50,200 SF of the site will be paved. Sidewalks, mostly existing, will cover approximately 3,200 SF. Landscaping is planned for the balance of the site, or approximately 42,400 SF.	
Costs anticipated due to the presence of contamination on the site include the following: 1. Disposal of excavated materials 2. Worker Health and Safety during foundation and paving work 3. Special requirements for landscaping Estimated costs for these are calculated on Attachment AA-2.	

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P. 4

SCHEDULE AA: GARAGE CONSTRUCTION SURCHARGE

1 DISPOSAL OF FOUNDATION EXCAVATED SOILS. MID-RANGE BETWEEN \$210,000 LOW AND \$1.5 MILLION HIGH (BASED UPON \$70-\$500/CY)

750,000

2 PILE DRIVING (NO PRE AUGERING)

ADD 20% SURCHARGE TO FOUNDATION COSTS FOR "LOSS OF DEVELOPMENT POTENTIAL" DUE TO RESTRICTING PILE DESIGN AND PLACING DUE TO CONTAMINATION.

FOUNDATION COSTS NORMALLY ARE AROUND 30% OF BUILDING COST. ESTIMATE COST OF \$18 MILLION BUILDING (1000 CARPARKS @ \$15,000 EACH). \$15 MILLION X 30% = \$4.5 MILLION IN FOUNDATIONS.

\$4.5 MILLION X 20% SURCHARGE

900,000

3 HASP REQUIREMENTS FOR CONSTRUCTION OF SURFACE PARKING

SURCHARGE OF 20% OF COST OF SURFACE PARKING. SURFACE PARKING ESTIMATED FROM \$250,000 TO \$351,288, HASP SURCHARGE = \$50,184 - \$70,257.

60,000

4 SPECIAL REQUIREMENTS FOR LANDSCAPING

LANDSCAPED AREA = 42,398 SF
COVERAGE @ 1' DEEP = 42,396 CF OR 1,570 CY
1570 CY X \$250/CY FOR DISPOSAL OF SOILS
1570 CY X \$25/CY CLEAN FILL
CLAY LINER @ \$4/SF X 42,396
DRAINAGE SYSTEM @ \$.75/SF X 42,396 SF

392,500 39,250 169,584

2,343,131

31,797

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11/16 '94 19:54

LG010221 CONFIDENTIAL Brick Archway (Calhoun St.) & SW Deep Tunnel

COSTS ASSOCIATED WITH CONTAMINATION
FOR
CONSTRUCTION OF CALHOUN/EAST BAY DRAINAGE IMPROVEMENTS
AND
RELOCATION OF THE STORM WATER OUTFALL ON THE NATIONAL PARK
SERVICE PROPERTY

The following documentation has been prepared to support the actual and estimated costs that will or have been incurred by the City to construct the projects known as the Calhoun/East Bay Drainage Improvement Project and Relocation of the Storm Water Outfall on the National Park Service Site. The approach taken has been to compare our cost estimates for the project in 1987 with actual and estimated costs to complete the same project after contamination was discovered. These are substantiated with the engineer's estimates and copies of actual contacts when available along with a letter of explanation provided by the engineer. The following pages of this section include written descriptions of the scope of these two projects.

CALHOUN/EAST BAY DRAINAGE IMPROVEMENTS

The project is currently under construction and will be completed under three separate contracts.

<u>Division I</u> - This division includes construction of an eight foot diameter tunnel, approximately 130 feet deep and 2,900 feet long and four associated shafts. Construction of the tunnel began in January 1995 on a parcel just south of Dockside Condominiums and will align generally with the Calhoun Street right-of-way to a point in Marion Square. The shaft locations are on Concord Street at the beginning of the tunnel, at Marion Square at the terminus of the tunnel and at two locations on Calhoun Street, one near the intersection of Washington Street and one near the intersection of Alexander Street. Excavation of the shaft at the Concord Street locations requires strict compliance with the Material Handling Plan approved by DHEC.

<u>Division II</u> - This division includes construction of the pump station including providing and installing all pumps, the associated piping, the discharge conduits from the pump station to the Cooper River, all controls and the structure to house the controls and electrical equipment.

<u>Division III</u> - This division includes the surface collection system that will collect surface runoff from the street surface and discharge it to one of the four shafts constructed under Division I. Surface collection systems will be constructed in Meeting Street between Mary and Calhoun Streets, in Calhoun Street between Alexander and Washington Streets.

Not Included in this Project - This project does not currently include relocation of any part of the old brick arch drainage and concrete box culvert system that is in Calhoun Street and continues through the NPS property to its point of discharge to the Cooper River. This project does not currently include complete drainage improvements to the Ansonborough Homes property or Marsh and Laurens Streets. Provisions are being made at the pump station site to allow improvements to this area to be tied into the new drainage system but the permit we are now working under does not allow this work to take place at this time. There may be costs associated with providing drainage improvements to Marsh and Laurens Streets that we have not yet estimated.

The design of the tunnel in lieu of the box culvert and open trench construction originally proposed was a result of requirements that materialized during the permitting process for this project. All cost increases, modifications and delays that have taken place on this project developed based on the discovery of contamination at the original pump station location proposed on Calhoun Park.

May 30, 1995 Page 2

RELOCATE STORM WATER OUTFALL ON NATIONAL PARK SERVICE (NPS) SITE

This project includes the relocation of the storm water outfall off of the Park Service property. Before the discovery of contamination it was agreed that the City would relocate its easement. The base line cost for this includes abandoning the existing concrete culvert in place on the Park Service property, building a new junction box at the intersection of the exiting drain and Concord Street, constructing a new drain culvert to redirect the stormwater runoff north beneath Concord street to a point north of the existing outfall next to the proposed Aquarium Because of the extensive contamination identified at the Aquarium site the drainage outfall is now proposed to be relocated south down Concord Street and then east to the Cooper River in the same easement identified for construction of the pump station outfall. However, both outfalls will remain as separate structures. The base line cost also assumes that the work would be conducted in clean soils requiring no special handling or precautions.

The actual cost for this relocation will be much greater that the baseline cost and the estimate includes the following assumptions:

- 1. All soil is contaminated and a material handling plan will have to be developed and approved.
- 2. In addition to the portion of the drain on the National Park Service property we will have to replace the brick arch drain on Calhoun Street between Concord and Washington Streets.
- 3. Portions of the drainage system in Concord Street between Calhoun and Charlotte and portions of the drainage system on Washington Street between Calhoun and Charlotte will have to be replaced to prevent infiltration of contaminated groundwater.
- 4. The alignment has to be revised to a point south of Dockside Condominiums to avoid the more concentrated areas of contamination.

BACKUP INFORMATION REQUIRED TO SUBSTANTIATE RED COSTS DUE TO SOIL CONTAMINAT

INCREASED COSTS DUE TO SOIL CONTAMINATION FOR

DESIGN AND CONSTRUCTION OF THE CALHOUN/EAST BAY DRAINAGE IMPROVEMENT PROJECT AND

RELOCATION OF THE STORM WATER OUTFALL OFF OF NPS PROPERTY

- 1. Original Detailed Pump Station Cost Estimate
- Original Engineering Services Contract and All Amendments Thereto for Design of the Drainage Improvements
- Division I Construction Contract without Technical Specifications
- 4. Division II Detailed Cost Estimate
- 5. Division III Detailed Cost Estimate
- New Detailed Cost Estimate for Marsh Street Collection System
- 7. Detailed Estimate for Relocation of the Storm Water Outfall Off of the National Park Service Property Including Best Estimates for Additional Work Required Because of Contamination
 - a. Sketch which defines original alignment and extent of replacement
 - Sketch which shows proposed alignment and extent of replacement required due to contamination
- 8. Construction Services Contract with Environmental Issues Highlighted (May be included in item 2.)
- List of Other Costs that May Be Incurred but Will Require Additional Effort to Provide Backup Information
 - a. City Staff time required to administer contracts and get permit approvals.
 - b. Increased operation and maintenance costs for operation of the pumps and tunnel collection system.
 - c. Additional losses and damages to the public and City due to continued flooding because project was not built 1987.

5/31/95



DAVIS & FLOYD, INC. MEMORANDUM

TO:

Adelaide Myrick

FROM:

Herbert W. Gilliam W

SUBJECT:

Soil Contamination / Remediation East Bay / Calhoun Stormwater

Drainage Improvements

City of Charleston

DATE:

June 1, 1995

JOB NO.:

-

8560.00

As you requested, Davis & Floyd has reviewed the effect that soil contamination has had on the East Bay / Calhoun stormwater drainage project. You may recall that the original scope of work for this project included a pump station, surface collection system and a main storm water collector that was to be installed through standard trenching and backfilling construction. During the permit process the reviewing agencies required material handling measures at costs exceeding the estimate to construct a deep tunnel system and avoid a majority of the contaminated soil. The project, as currently designed, does not provide additional flood protection beyond the original scope of work. Therefore all increases to the cost and design changes that have occurred are attributed to finding and having to work with the contaminated soils. We offer the following for your consideration.

- (1) An estimate for this project in October of 1987 was \$5,635,000. This included drainage in the Marsh Street area and relocation of the box culvert from the National Park Service property. Engineering cost for this project was \$277,000. Documentation for these costs is included in schedule AC. 2
- The bid for Division I of the drainage project is \$4,690,000. Division II is estimated to cost \$2,636,000 and Division III is estimated to cost \$1,726,700, for a total project cost of \$9,052,700. Marsh Street drainage and the relocated box culvert are not included in this estimate. Documentation is included in schedule AC. 4, AC. 5 and AC.6.
- The RI/FS findings have indicated that there is minor contamination in the Ansonborough Homes area, therefore there is a possibility of including Marsh Street drainage facilities at an estimated cost of \$608,000. Documentation is included in schedule AC. 7.
- (4) The latest indications on scope of work for eliminating groundwater migration to the existing brick arch tunnel include total replacement of the brick arch from the discharge to Washington Street. This work is estimated to cost \$5,093,000. Documentation is included in schedule AC, 8.

[•] ENGINEERS - ARCHITECTS • PLANNERS • SCIENTISTS • Davis & Floyd, Inc. | P.O. Box 61689 | Charleston, S.C. 29418 | 3229 West Monlague Avenue | Charleston, S.C. 29418 | (803) 554-8602 | Fax (803) 747-6485

Memo/Ms. Myrick June 1, 1995 Page 2

- (5) The original design fee for this project was \$277,000. An additional \$222,000 was required to prepare the deep tunnel design. Geotechnical and consulting services are required during construction at a cost to the City of \$93,200. Documentation is included in schedule AC.
- (6) There will be additional cost to the City that is extremely difficult to quantify such as increased operations and maintenance of the deep pump station and tunnel. There is higher horse power on the revised pump station requiring higher power cost.

The City will be required to hire professional divers to maintain the pumps at the tunnel level. Also, non-standard equipment may be required for routine maintenance.

The total cost effect is estimated to be \$9,433,900 (\$15,345,900 less \$5,912,000). If the City would like us to attempt to assign a estimate to item (6) please advise.

Call me with your questions or comments.

:aar

xc:

Laura Cabiness
Clarence Matthews

	PROJECT COST BEFORE CONTAMINATION	PROJECT COST AFTER CONTAMINATION
Pump Station & Collection System	*\$5,635,0 00	\$ 9,052,700
Marsh Street Collection System		\$ 608,000
Relocation Box Culvert & Pipe Rep	lacement	\$ 5,093,000
Design	\$ 277,000	**\$ 499,000
Services During Construction		\$ 93,200
	\$5,912,000	\$15,345,900

- * This price includes Marsh Street collection system and the relocated box culvert.
- ** This cost includes the \$277,000 for original design that the City paid.

ADDITIONAL COST INCURRED

This figure does not include differential cost attributable to item (6) in letter.

\$15,345,900

Maritime Center

SUMMARY

TITLE

Charleston Maritime Center (CMC)

AMOUNT

\$8,533,112

ATTACHMENTS

Charleston Maritime Center Site Plan

B Charleston Maritime Center Residual Tracts

C Calculation Sheets

EXPLANATION Development of the Charleston Maritime Center which is located at 300 Concord Street calls for a 7380 SF building sited adjacent to a public park and two piers (A). The residual property has been master planned (B) and will be developed in five parcels for a mixture of residential and commercial uses.

Costs anticipated due to the presence of contamination on the site include the following:

I. Initial construction including testing, permitting, dredging and disposal of contaminated silt, upland testing and disposal of contaminated soil in utility corridors, fuel tank shaft, elevator shaft and foundation, and construction of piers, building and site work

II. Maintenance of the CMC marina including testing and disposal of contaminated soils in original spoil disposal basin and one which must be created within six years of initial dredging

III. Five residual tracts-loss in value due to contaminated soil. Development will require testing and disposal of excavated soils in utility corridors, elevator shafts and foundations and following health and safety standards for foundation construction.

IV. Cost of City bonds on \$2.5 million from November of 1993 until May of 1995. Cost of City bonds are justified for this period because the City had intended to develop the Maritime Center much sooner and use it as a catalyst for attracting other development as shown in the master plan in Attachment B. The parking lot site was also seen as a long term development site.

ATTACHMENT C

SUMMARY ENVIRONMENTAL CONTAMINATION COSTS RELATING TO THE DEVELOPMENT OF 300 CONCORD STREET		
	Daniel & Clouter Island Confined Disposal Facility -10 years*	
CMC-Construction-See Chart I	\$2,622,431	
CMC-Maintenance-See Chart II	\$3,371,085	
Residual Tract Development-See Chart III	\$2,290,315	
Cost of City Bonds-See Chart IV	\$249,281	
TOTAL	\$8,533,112	

^{*} Number of years during which contaminated materials will be dredged and disposed

Appendix B
Brown's Directory Excerpts

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Wasterly Light and Power Co., Westerly,

HILLIN, Y., N. H. & H. Ex.t Ad.

Capital atock, pref., \$200,000; com., \$500,000; and div. pref., \$ D. c. hours, \$370,000; due URI7; int., & p. c. President, Wns. Olark.

Soretary and from, Y. B. Sleore.
Mgr. and pur. agt., M. H. Spellman.
Now low. mgr., M. H. Spellman.
Process manufacture, Lowe.
Price ocal per ton, delivered, \$6.
Price ofl per gal., delivered, \$6.
Price ofl per gal., delivered, \$6.
Pop. dist. supplied, 10,000; of city, 12,000.
No. moters, reg., \$60.
Miles of mating, supprox., \$.
Street main pressurers; max., \$ in., min., \$1 in., Price gan; Light, and, \$105,000 c, \$1.
Max. day's soul out, \$5,000 c, \$6.
Annual sales, approx., 18,000,000 c. \$6.
Gas unaccounted for, 10 p. c.
Candio-power, 18.
Ranges in use, \$500 inenters, \$60; water host-reg., \$40.
No. Humbiroy commercial gas are tanny. \$6.

B73, 40,

No. Humphroy commercial gas are lamps, 75. Supplies Westerly, R. L. nist Poweatuck,

BLEOTRICAL DEPARTMENT.

System operated: Are and incond. A. O., 8 thate, 60 cycla; power, A. C. Generaling capacity: Lighting, 800 kw. Vallago: Ares, 80; incond., 110; power, 550. Oity lighting contract: Ara and incond., all night schedule.

No. public ares, 13; 400 watt. Price per year, 819. No. public incand., 750; 50-40 watt. Price per your, \$18. Commercial lighting: No. ares, 30; No. Inc. cand., 20,000.

Pelco current per kw. hr., gross, 16c. Disc., up to 50 p. c.

Other lamps, 10 Normet and 1,500 Tungstens. Power circulist No. motors, 1101 price per h. p., 5c. to 1,75c.

Outjust of station, kw. for year, 2,225,000.

Contrains power usod, Discel oil orginel rated h. p., 1,125.

Coat of station fuel oil, 3c. per gat.

20,

Woonsookel Cas Co., Woonsooket. nat. RR.: N. Y., N. H. & H. Ex. ; Ad. ; D. & P.

Capital stock, \$250,000.
President, Frank E. Holden,
Scerelary, Chester M. Clork,
Tronsurer, Honry B. Sanyer,
Onn. mgc., Aifred F. Townsand,
Superintendent, C. F. Sinvens,
New hus. mgc., R. O. Nowcomb,
Process manufacture, Standard, Lowe,
Pop. dist. supplied, 80,000; of city, 88,000,
No. consumors, 5,400.

ore is impervious to insects, dust and alls. See advertisement, page xxxii.

RHODE ISLAND,-SOUTH CAROLINA.

No, moters, reg., 9,121; prepay., 2,046.
Price gas: Light and Fuel, gross \$1.39; not
\$1.20; 7cc. all over 500,000 c. f.
Miles of mains, approximate, 41.1.
River math pressures, max., 4.2 in.; min., 3 in.
Righ pressure mains, 12 mi., press., 5-16 ips.
Max. day's send out, 440,000 c. f.

this holder capacity, \$30,000 c. f. Annual sales, approx., 50,885,700 c. f. this unaccounted for, f.4 p. c. thislie-power, 20. Cal. val., 520 B. t. u. Hubers in uso, 1,503; henters, 350; water henters, 350. Supplies Woonsocket, H. I.

A STREET VALUE

247

SOUTH CAROLINA.

Total population, 1,515,400.

Anderson Gas Co., Anderson. Rite.: Ohns. & West. C.; Blue Ridge. Ez.:

(Plant under construction.)
Onlitel stock, \$100,000.
President, Arthur Sicdwedert.
See and trees, George O. Thompron.
Price gas: Light and Duel, gross, \$1.00; net.
\$1.05. Will supply Auderson.

Charleston Consolidated Ratiway and Lighting Co., Charleston.

HRB.: A. C. L.; So. S. Ha.: B. & O. Co.: So. SB.; Clyde SB.; See Isl. Co.; C. SS. Co. Ex.: So.

Ex.: 80.

Capital stock, pref., \$1,500,000 auth., \$500,000 issued; com., \$3,000,000 auth., \$1,500,000 issued; com., \$

\$10. Contract includes repairs, care, lighting and extinguishing. No. liours lamp is lighted per year, 4,000. Candle-power, 20. Aunual sales, approx., 158,321,000 c. f. Ranges in use, 3,002; heaters, 2,600; water-inenters, 700.

No. Welshach and Humphroy gas are lamps, 547.

Supplies Chnrieston, S. O.

PLECTRICAL DEPARTMENT.

System operated: Arc. 0.6 mmp., A. C. sortes
St. arcs; incand., 2,500-volt, slugle phase;
power, 2,500-volt, 3 phase, 600-volt D. O.
Gonerating capacity: City station, 2,500 kw.
A. O., 025 kw. D. C. (includes rathway
capacity); senshore, 225 kw. A. C., 450
kw. D. C. (includes rathway capacity).
Voltago: Arcs, series; 2,800 prim.; 110-220
sec.; 500 D. C.

City lighting contract: Hours lighted per yest: Arc and liceads, 4,000. No. public inexads, 284; 195 watt. No. public inexads, 81; 112 watt; 11, 176 watt. Commercial lighting: No. mes. 101; No. in-

Commercial Habiling: No. nees, 1011 No. In-tract., 55,080.

Price current per kw. hr., gross and net, 12c. to te.

To

Columbia Raliway, Oas and Electric Co., Columbia.

Ithe.: A. C. L.; Col., New, & Laurens; S. A. L.; So. S. Bs.: N. Y.; Col. & Geo, Co.

Capital stock, duth., \$300,000; issued, \$200,-Capital stock, math., \$500,000; Issued, \$200,000.

Bonds, \$225,000; due 1980; int., B.p. c. President and treas., B. W. Robortson. Kerrelary, G. M. Berry. Gen. mag. and mar. agt. G. K. Dustin. Superintendent, S. W. Brown. Process manufacture. Lowe. Price coke per fon. delivered, \$4.50. Prop. dist. supplied. 20,000; of city, same. No. consumers. 1,000.

No. motors, reg., 1,200; propay., 400. Miles of mains. approx., 24. Price gas: Bilding scale, \$1.50 to \$1.25 net. Candle-power, 21.

Annual sales, approx., 43,000,000 c. f. Grand maccounted for, 21 p. c.

Max. day's sond out, 251,000 c. f.

Catal gas holder enpactly, \$800,000 c. f. \$ired, main pressures, max., 4.5 in.; min., 12 in.

Ranges in use. 1,200.

No. commercial gas are tamps, 850. Supplies Columbia.

For Electrical Department, see "reports revived foo late."

Greenville Gas & Electric Light & Power Co., Greenville.

Itile,: Chas. & West.; C., Gr. & Knox.; So.

Controlled by Routhern Power Co. Controlled in Southern Power Co.)

Salla stock, com., auth., \$100,000; issued,
\$53,000.

Bonds, \$250,000; due 1030; int., & p. c.

President, X. V. Taylor.

Socrelary and treasurer, E. C. Marshall.

BEFORE ACCEPTING any kind of street lighting inquire about the best: Welsbach Street Lighting. See advertisement, page xxxii.

RHODE ISLAND.

Price mis: Light and Fuel, gross \$120; not No. public lamps, 284; lighted by moon scale. Price does not include repairs, care, lighting

Rengel in ur. 10,034; heaters, 350; water hences, 444.
No. commercial gas are lumps, 801.
Supplies Pawtociet, Control Falls, Lincoln and Cumberland.

RRs. N. Y., N. H. & H.; Frov. & Dun. S. Bs.; T., F. & E. N.; Scar. Co.; Mar. & Min. Trans.; Joy: N. B. Nav. Ex.; Ad.; E. R. P.; N. Y. & B.

Providence Gas Co., Providence.

SOUTH CAROLINA

Total population (1910 C. & Consus), 1.314400.

Ria.: Chas. & West. C.: Mue Ridge; So. Ex.: So.

(Began operations December, 1012.)
Capital stock, \$750,000.
Roads, \$80,000. dan 1942; int. 0 n. c.
President W. W. Hees (Thiludophin),
Trespires, Francial L. Joins
Sec. and trens. W. Cibarles Johnth.
Purchasing agent, W. II. Wouse.
Geo. migh. and supt., W. II. Wouse.
Process manufacture, Lows.
Condic-power, 13.
Miss of malms, 15 lagh pressure.
Gas holder expected. 15,000 c. f.
Pop. dath. supplied, 16,450.
Frice gas: Light and Fuel, gross, \$1,00; net, 6,150.

Supplies Anderson.

RRE.: A. C. L.; So. S. Bs.: H. & C. Co.: So. Ss.; Clyde SS.; Sen let. Co.; C. SS. Co. Ext.: So. Charleston Consolidated Rallway and Lighting Co., Charleston.

Capital stock, pref., \$1,500,000 auth., \$500.000 issued; com., \$3,000,000 auth., \$1,500.000 issued.

Tresident, Pully E. Gadeden.
Thespres, and gen, agr., G. E. Waring.
Socretary, W. F. Dornint.
Trainmer, Lowis Lille.
Trainmer, Lowis Lille.
Trainmer, Lowis Lille.
Trainmer, Lowis Lille.
Process monufacture, Lowe.
Candle-power, 20. Benedict.
Annual sales, approximate, 60.
Annual sales, approximate, 60.
Pop. city supplied, 38.393.
No. constances, 43.00.
Then part of the constances and the constances.
The pulle Weisbach lamps, 509; price per year, 21.
Pulle Weisbach lamps, 509; price per year, 21.

Contract close not include repults, etc.
No. bours hear is Highed per year, 4,000.
Innaces in we. 4,590; heaters, 3,117; water
No. commercial gas are lunus, 770.
Supplies Charleston, N. C.

System operand: Arc, 6.6 mm, A. C. series St. arcs; intended, 2500-voir, ingige phase; power, 2500-voir, 3 phase, 500-voir D. C. Guernting canadity: Cirk station, 5.000 km, A. C. 1,500 km, D. C. in n. E. sett (in-clides railway equelty), n. C. station voltage: Arcs, sectors; 2,500 prim.; 110-220 sec; 600 D. C. DIRECTRICAL DEPARTMENT

Olty lighting contract: Bours lighted per year: Are and income, 4,000.

No, public ares, 288; 455 watts.
No, public incard., 85; 112 watts; 11, 175 watts; 467; 77 watts.
Commored lighting: No. ures, 158; No. Incard., 16,075.

Price current per kw. in., grows and not, 10c. 10 water civents in a motors, 400; infec per kw. in., gross and not, w. to 25c; large kw. he., gross and not, w. to 25c; large lives in 15g. per kw. he., price per kw. he., pric uncy charge.
Output of matten, kw. for reut, §, 107,012.
Gonarathy power used, 5,000 kw. skeun turlines; UTO kw. stoam orgines (includes rallway generators).

BBs.: A. C. L.; Col., New. & Laurens; S. A. L.; So. S. Bs.: N. Y.; Col. & Geo. Co. Columbia Railway, See and Electric Co., Columbia.

Capital stock, auth., \$8,000,000: Issued, \$2. 851,500 (\$2,000,000 com.; \$831,400 pred.).
Annual div., pred. 0 p. c., President and treus., B. W. Robertson., Sr.-rebrey, M. C. Welght.
Gon. mgr. and pure night. G. K. 1) with Process manufacture. J. G. Roco., Ruperintending. S. W. Brown.
Process manufacture. J. G. Roco., Ruperintending. S. W. Brown.
Price on prer gral., delivered. 4-15.
Miles of larler, approx., 20, 000.
Price of prer gral., delivered. 4-15.
Miles of furite. approx., 20, 000.
Candic-power, 21: calorific valler. 601 R. t. di.
Antural sales, spiryces., 20,00.00 c. f.
Gos manceounted for, 16 p. c.
Max. day's send out. 71,500,000 c. f.
Gos manceounted for, 10 p. c.
Max. day's send out. 71,500,000 c. f.
Gos unaccounted for, 20,00.
No. consumers, 20,00.
No. consumers, 20,00.
No. consumers, 20,00.
No. consumers, 20,00.
No. consumers of 1,500.

Byston operated: Arc. D. C. sories; incind.
I ph. 40 cyclos; power, 3 ph. 40 cycles.
Generiting engledy: Power, 10,200 kw.
Volkage: Arcs. 72, series; head, 11620;
Dower, 530.
City lighting contract: House lighted per year: Arc. all algel.
No. public arcs, 137; 875 waths: price per venr. \$42. Commercial Hatting: Na. area, 147. Fries current per kw. dr., gross, 120. Dis-courts, 10 p. c. DEECTRICAL DEFARTMENT.

THE Welsbach STREET LAME is impervious to insects, dust and See advertisement, page xxxii. draughts, consequently it never fails.

Inderson Bas Co., Anderson. Gen. 105T. and pur. 19t., M. II. Spollman.
New bea, mer. M. II. Spollman.
Precess immunifacture. Lowe.
Price only per forn, delivered, 52.30.
Price oil per forn, delivered, 52.30.
Frite oil per forn, delivered, 52.50.
Mix. day's send out, 60.000 c. t.
Annual solice property, 100.000 c. f.
Gas unaccounted 52.10 p. c.
Annual sules, papers, 18,000,000 c. f.
Consulerovered 52.10 p. c.
Annual sules, papers, 18,000,000 c. f.
Consulerovered 52.10.
Consulerovered 52.10.
Consulerovered 52.10.
Consulerovered 52.10.
Consulerovered 52.10.
Consulerovered 52.10.
No. connocral grasser in grass.
No. connocral grasser in grass.
Supplies Westerly, Ic. I., and Pawentack,
Conn.

ELECTRICAL DEPARTMENT.

Capital, apportfoned to elec. plant, approx., rwo-thread.

System operated: Are and incand. A. C., 3.

Danie, Ed Sycle; power, A. C., 3.

Generating capacity: Lagaring 80, v., volture: Are, 66; hread, 100; power, 50.

City lichline contract: Are and themad., all night schedule.

No. public nres, 22: 400 watt. Price per year.

Capital stock. St.000,000, auth.; 54,000,000
Bresident. John W. Ellis.
Trevileor. John W. Ellis.
Trevileor. John W. Ellis.
Free, and mark. Teres. Arthur F. Short.
For. agt. and mark. John W. Ellis.
Forces mannafacture. Coal and Towe.
Mixture supplied. coal, 46 p. c.; water, 55 p. c.
Allise of mining suppose., 378.
Candle-power, 10.5.
Calorifie value. 000 B. r. n.
Annual soite, approx., 1.500,0000 c. f.
fina maceometel for, 2.0 p., c.
fina maceometel for, 20, p., c.
fina prop. of dist. supplied. 240,000; of edy, 220, 000.

No. public incand, 800: 50-40 watt. Price per

Consumers and motors, 70,000.

Prive gait i Lidit and Well, gross, 65c; met, 85c. Supulea ett, of Providence and towns of Urnaston and Executives.

RINA.; N. Y., N. H. & H.; S. B., Sene. Co., Ex.; N. Y. & R.

Iverton Gas Co., Tiverton.

Commercial Editions: No. area, 26; No. Incand., 250,000. In the Cont. of the Cont. (Phun owned by William E. King, F. F. Grin-pred, and and silent naturet.)
Predict. Inclamin Scalary.
Neverlary and treas, Pardon G. Gray.
Par. speak. Wh. E. King.
Georgia manusces. Wh. E. King.
God Durchawed from Full River Gas Worls.

Blackstone Valley Gas and Electric Co., Weonsooket. RR: N. Y., N. H. & H. Ex.: Ad.; H. & P.

(For supitalization and officers see this com-lung's report under Particles,) Gas samplied under dich pressure from Pare-Miles of mulus, approx., 12; selvet main pressure, a sure, mus., 7 in., 7 in., 2000,000 c. f.
Annual subs, sedimated, 5,000,000 c. f.
Population of ele, 4,000.
No. metres, rez., 120; propay, 5.
Tribe gnet Libra, net, 81.10.
The gnet Libra, net, 81.10.
Supules Tiverton.

Alley definite thiefe lich presents from PawMices of malus, approximate, 41.1.
Street main presence, max. 42 in; min, 8 in.
Max. day's some and vit, 410,000 c. f.
Girk halder emartity, 500,000 c. f.
Annual sules, upprox. 94,386,700 c. f.
Girk halder emartity, 500,000 c. f.
For diffic miphical 45,000; of city, 38,000,
No. crossumer, 5400, valled, 500,000; of city, 58,000,
No. crossumer, 5 Capital stock, pref., \$200,000; com., \$300,000; and div. pref., 5 p. c. loade, \$375,000; due 1937; lut., 5 p. c. Provident, Why. Clark.
Tremstreet, P. B. Wilcox.
Assit. tress., R. G. Tlunckeray.

Westerly Light and Power Co., Westerly. RR.: N. I., N. II. & H. Ex.: Ad.

obtained by reason of having properly designed fixtures for all kinds of manufactured gas, also natural gas, and Weisbach maintenance. See ad-The candle power of Welabach Street Lightney units is constantly ertisement, page xxxii

ODE IBLAND Wealerly Light and Power Co., Westerly. Hit, N. Y., N. H. & H. Ex. Ad. Oapital afock, pref., \$200,000; cotti., \$500,000; and afock, pref., \$200,000; cotti., \$500,000; and afock, pref., \$50, c. Inoid, \$27,000; due 1037; int., bp. c. Prealdert, Win. Olark. Soc'y and trens., F. B. tylicox. Asst. trens., Fred Hodell. Gon. mgr., and pur. agt., M. H. Spellman. New East mgr., M. H. Spellman. New East manufacture, Love. Price oal per ton, delivered, \$0.50. Price oal per gal., dolivored, &c. Candiolopwor, 20. Calorific vatue, 600 B. t. v. Annual prod., ppppox., 22,000,000 c. t. Gas holder capnolly, 100,000 c. t. Gas holder capnolly, 100,000 c. t. Holder breasure, mak., & In. 1 min., H in. Annual salos, approx., 13,500,000 c. t. Pop. dist. supplied, 10,000; of city, 8,600. Consumers min inclore, 1,234. Price gas: Light and Fuel, gross. \$1.50; Light, net, \$126; feels, het, \$1.20. No. formbereini gas are images, \$5; water heat. ors, 123. No. formbereini gas are images, \$2. Supplies Westerly, H. L. and Pawcatuck. Cons. Supplies also The Mysile Power. Contains BR. I N: Y., N. H. & H. Dr. I Ad. 000,000 and. D n.c. fai lòs. 823 ELECTRICAL DEPARTMENT. Capital apportioned to elec. plant, approx., two-thirds. Rystem operated: Arc and incand., A. C., & plant. Go oyele: power. A. C. Generaling capacity: Lighting, 800.kw. Yoltage. Arc., 851 facand., 1101 power, 850. Oity lighting contract: Arc and incend., all light schedule, No. public arca, clusiors. 23; 800 watt. Price per year, 854. No. flams are famps. 10. Price per year, 800. No. hubble incand., 823; 50-40 watt. Price per year, 815, 40 watt. Coninercial lighting: No. arcs, 204 No. in-coninercial lighting: No. arcs, 204 No. in-conin., 27,000. Price current per law, hr., gross, 10c. Disc., up to 50 p. c. Other lamps, 4,600 Tampstom. Power circuita: No. motors, 121; price per l. p., 5c. to 1.70c., Output of station, kw. for year, 2,271,000. Generating fower weed, Diesel oil engine; rated p. p., 1,126. (About 80 p. c. of power purclaned.) Cost of station (see oil, de. por gal. BLEOTRICAL DEPARTMENT. Sinckstone Valley Gas and Electric Co., Woonsockel. RR. 1 N. Y., N. H. & H. Dz. 1 Ad. 1 E. & P.

Operated by Stono & Wobsler Agt. Assu. (For empitalisation and officers see this con-graphs report under Appendix.)

One applied under high pressure from Paw-tucket.

ncy among gas companies and

he proper maintenance of gas

sity. See advertisement, page

RHODE ISLAND.—SOUTH CAROLINA.

Candle power, 29. Cal. val., 620 B. t. u. Bax. day's send out, 410,000 c. f. dis holder equally, 500,000 c. f. Miles of mails, approximate, 41.1. Street main pressures, max., 4.2 in.; min., 3 in. High pressures mains, 12 mi., 1 press., 5-15 bs., Annual andex approx., 06,883,700 c. f. diss unarcounted for, 5.4 p. c.

Pop. dist. supplied, 45,000; of city, 68,125, No. consumers, 5,600, No. meters, reg. 5,121; prepay., 9,845, Price gas Light and Friel, gross \$1,50; net \$1,50; 75c, all over 500,000 c. f. Ranges in use, 1,503; honters, Sto; water leaters, 100.
Supplies Woonsocket, R. I.

A CONTRACTOR OF THE PARTY OF TH

SOUTH CAROLINA,

Total population (1910 U. S. Comus), 1,519,400.

Anderson Gas Co., Anderson, Dist. Chas. & West, C. | Disc Ridges Sc. Hile. 1 Chas. & West. C. 1 Blue Ridge; 80.

Ext. 80.

Gapital stock, \$100,000,

Bould. \$100,000, Hould. \$100,000,

Bould. \$100,000, Hould. \$100,000,

Revealer, W. W. Hosa (Philadelphia),

Revealer, W. Charles Jenkine.

Trasurer, H. A. Hilesh (Waverly, N. Y.).

Purchasing agont, W. R. Wones.

Bugincor, W. R. Wones.

Bugincor, W. R. Wones.

Bugincor, W. R. Wones.

Bugincor, W. R. Wones.

Process manufacture, Lovo.

Price of coke per ton, dollvered, \$5.15.

Price of coke per ton, dollvered, \$6.15.

Price of ocke per ton, dollvered, \$6.15.

Price of coke per ton, dollvered, \$6.15.

Price of old per gal., delivered, \$6.15.

Price of old per gal., delivered, \$6.15.

Price of old per gal., delivered, \$6.15.

Has. day's send out, \$0,000 c. f.

Anaudi prod., 10,000,000 c. f.

Anaudi prod., 10,000,000 c. f.

Mas. day's send out, \$6,000 c. f.

Holder pressure, max., \$1 in.

Miles of mains, 15 high pressure.

Pressure carried, 25 lbs.

Anual sales, approx., 10,000,000 c. f.

Gas unaccannied for, \$ p. c.

Por, city, 0,634 of dist, supplied, 10,000.

No. metors, reg., 300; prepny., 200.

Price gas: Light and Fuel, gross, \$1.60; net, \$1.50.

No. ranges, \$35; heaters, \$0; water heaters, 26.

No rauges, 335; heaters, 40; water heaters, No, commercial gas are lumps, 112. Supplies Anderson and suburbs,

Charleston Consolidated Hallway and Lighting Co., Charleston.

Rils: A. C. L. So. B. Bs.: B. & C. Co. So. 88.; Clyde HB.; Sea Isl. Co.; C. SS. Co. Bx.: 80.

Fix.: 80.

Capital stock, pref., \$1,500,000 auth., \$500,000 issued; com., \$3,000,000 auth., \$1,500,000 issued.

President. Philip II. Gadselen.

Vice-Presidents, Walton Clark, Lewis Little.

Vice-pres. and gen. mgr., 0. II. Waring.

Secretary, G. W. Curyan.

Pressurer, Janues Ball.

Asst. treas., O. M. Benedict.

Put. agout, J. A. Fearson.

Process manufacture, Lowe.

Candle power, 20.

Miles of auths, approximate, 97.80.

Annual sales, maprox., 212,dill,827 c. f. Autual sales, approx., 212,011,827 c. f.

Pop. city supplied, 58,639. No. consumers, 0,020. No. meters, reg., 0,030, propay., 203., Price gast Light and Fact, 51,10. Public Wotshach humps, 1601, price per year, 410. Fundamental analyst (not) price her year, \$10.

Contract does not include repeirs, etc.

No. hours lamp is lighted per year, 4,000.

Ranges in uso, 5,837; heaters, 4,847; water heaters, 1,122.

No. compercial gas are lamps, 1,120.

Supplies Charleston, S. O.

ELECTRICAL DEPARTMENT.

ELECTRICAL DEPARTMENT.

System operated: Arc, 0.0 cmp., A. O. series 8t. arcs; incand., 2,500-volt, single phase; power, 2,800-volt, 8 phase, 500-volt D. O. Generating capacity: City station, 5,000 kw., A. O., 1,800 kw. D. O. in m. g. sets (includes rathway capacity).

Voltage: Arcs, zeries; 2,300 prim.; 110-220 sec., 500 D. O.

Oity lighting contract: Hours lighted per year: Arc and incand., 4,000.

No, public arcs, 350; 420 wates.

No, public arcs, 351; 420 wates.

Commercial lighting: No. arcs, 41; No. incand., 21,837.

Price current per kw. ir., gross and not, 10c. to 4c.

Fower circuits; No. metors, 507; price per kw. hr., plus per mary charge.

Output of station, kw. for year, 0,277,188.

Goastating power used, 5,000 kw. steam turbines; 075 kw. steam ongines (includes rallway generators).

Oheater Oily Gas Co., Chaster.

Rina.; Car. & No. W.; Inneastor & Chester; H. A. Ini. Bo. Ex. ; So.

(Bader construction.)
Controlled by International Gas & Ricetric Co.
Capital stock, \$200,000
President, G. Hachman.
Recy and treas, A. H. Nissley.
Genoral manager, F. H. Hickok,
Engineer, J. D. Shattuck,
Ruparintendent, M. L. Lovo.
Auditor and pair, agent, Horace Beeson,
Process manufacture, Lowe.

The Welsbach Street Lighting Co. of America is in a posi- H tion to render competent service at the lowest price compatible with satisfactory results. See advertisement, page xxxii.

SOUTH CAROLINA.

Aujuni stles, approx., 0,700,000 c. t.

Que unaccounted for, p. c.

Peje, elty, 0,004; of dlat supplied, 10,000

No. concurrent; 52n.

No. unders, reg., 275; prepay., 100.

Price and Light and buel, gross, \$1,00; net.

\$1,50. Pringes, 470; healers, fa): unfer licators,

No. commercial gas are langue, 20, Happiles Andersol, and exbuchs.

Obarisatea Cassellated Railway and Lighting Co., Obarisates, Est So., S. A. B., Car. & W.; & H.; I. & C. & C.; Clipie Sh.; Sea Twansf.; M.; I. & C. & C.; Clipie Sh.; Sea Twansf.; Am.-Th.; Latchenbach; Graco; United Fruit

Am.-1.1 (Addrender Green) Dates FunIdite. Kr. 180.

Capital stock, pref., \$1,500,000 auth, \$3,00,000 fauted; colin, \$2,000,000 auth, \$1,500,000 fauted.

Orealded; Philip II. dadden.
Vice-President, Walton Chrit, Lavia Liille.
Vice-president, March Chrit, Waring.
Treasurer, James Ball.
Asst. treat, O. M. Benodict.
Fur. agent, J. A. Pearson.
Proceeds manufacture, Lowe.
Candle-power, 20.
Miles of maina, approximate, of St.
Auhuni selea, approx., 201925, 102 c. f.
Pop. city supplied, 60,003.
No. consumera, 7,020.
No. motics, ref., 6517, prepay, 108.
Price gas: Light and Puel, \$1,10.
Public Velstach lampa, 607.
No. bonirs, lamp is lighted per year, 4,820.
Ranges, in use, 0,810; besters, 4,820.
Ranges, in use, 0,810; besters, 4,820.
Rangelies Charloston, S. O.
BLEOTRIGAL DEPARTMENT.

BLEOTRICAL DEPARTMENT.

BLEOTRIOAL DEPARTMENT.

87stem oberated: Arc, 0.6 amp., A. C. sorias
8t. srcs; iacaid., 2,200-rolt, single phase;
power, 2800-volt, 8 phase, flower D. O.;
also, 0,000-volt, 5 phase.
Generating edpacity! City elation, 5,000 kw.,
A. C., 1,200 kw. D. O. In m. g. sets (includes railway capacity).
Voltage! Arcs, series; 2,300 prim.; 110-220
sec.; 600 D. O.
Oity lighting contract: Hours lighted per
years Aro and lanand, 4,000.
No, public Arcs; 380, 426 walis; 28, 310 watts.
No, public farcat, 34, 40 westes.
Cogniercial lighting: No, arcs, 24; No, series
incand., 11; No, incend. 68,650.
Price current per kw. hr., gress and not, 10c,
104 (c.
Power circuits; No, inclore, 401; price per
kw. hr., sross and net, 6c to 26c; large
power, 3c, to 1c, per kw. hr., plus priinary charge.
Output of stallon, kw. for year, 10,327,748.
Generating power used, 6,000 kw. steam turbines (includes railway generators).

Obtator City Gas Co., Chester. (Company out of existence; franctice for-

Columbia Bas Light Do., Columbia: Rita, I A. C. Jan Col., New & Taurens; B. A. L.; So. B. Hat N. Y.; Col. & Geo. Co.

Controlled by Columbia Rallway Gas & Blectric Co.

(For enfinitization, bonds, etc., see Appendix.) Freeldont and treas. R. W. Robertson. Secretary, B. Charlion Weight.

(etc.). Robertson. Secretary, B. Charlion Weight.

(etc.). Robertson. Robertson. Robertson. Secretary, B. Charlion Weight.

(etc.). Robertson. Robert Controlled by Columbia Italiway Gas & Blee-

No. commisercial gas are famps, 400, Supplies Columbia.

Floresco Que Co., Florenco. HR.: A. O. L. Fr.: 80.

HR.: A. O. L. Witt So.

Capital stock, auth., \$100,000; hasted, \$75,000. President, J. I., Barringer, Jr., Sec., and treat, W. J. Brown. Gen, aign, and pur, agl., I. I. Barringer, Jr. Sec., and treat, W. J. Brown. Gen, aign, and pur, agl., I. I. Barringer, Jr. Mughaest, John Blehter, Br., Process manufacture, Lows (Togan), irles coke per top, delivered, \$4.06. Price of per gallon, delivered, £25c. Caudio-power, 18.

Calculate value, 000 B. t. U. Gas holder capacity, 50,000 c. f.

High-pressure mains, 18 miles, pressure, 7 ibs. Alumal sales, approx. 12,000,000 c. f.

High-pressure mains, 18 miles, pressure, 7 ibs. Alumal sales, approx. 12,000,000 c. f.

High-pressure mains, 18 miles, pressure, 7 ibs. One maters, ret., Cal., propay. 160.

Price gua; Licht, genes, \$2; net, \$1.50 for fat 10,000 c. f.; auxi 10,000 c. f.; \$1.20 net.

Gas appliances in use; Hanges, 400; heaters, Mr. water fenters, 120.

No. commercial cas are lamps in use, 76.

Supplies Florence.

EMINENT DOMAIN Extensions of mains, rights of way, consents of Commissions and property owners. You can keep yourself fully informed by using OFFICIAL PUBLIC SERVICE REPORTS, 74 Broadway, New York

SOUTH CAROLINA.

terretena Gas and Electric Co., Georgetone. (Company out of existence; frauchise for-(cited.)

· i.-

Beibers Publio Utfilles Co., Greenville. RRaj Chas. & West.; C., Gr. & Kuoz.; So. P. & N. R. R. Ex.; So.

P. & N. R. R. Ex.; So.

(Successor to Greenville Gas & Elec. Light & Force Co.)

(Costrolled by Bouthern Power Co.)

For equilalization unt bonds, see Appendix, praident, Z. V. Taylor.

Bereitary and irromines D. C. Marshall.

Bracch age, Jes. McCabo.

Superintendent, W. H. Brewinn, Pr. geen, Mill Power Supply Co.

Process manufacture, Lowe.

Price oil pr gal., delivered, 7.0c.

Cadle-power, 22.

Mar day's sould out, 100,000 c. f.

Ost bolder capacity, 160,000 c. f.

Mise of mains, approximate, 42.

Miret unala pressures, max., 3.5 [m.; min., 25 [m. annace-mixet] for 31 [m. c. pop. cit.]

Annual sales, approx., 23,100,000 c. f.

Cas unacco-mixet for 31 [m. c. pop. cit.]

No. melers, rue., 1,000; propay., 000.

Vice sas: Light and Pucl. gross \$1.85; net \$1.25.

No. mulers, 1,700; henters, 125; water heaters, 200.

No. muses, 1,700; henters, 125; water heaters, 200.

Supplies Greenville and vicinity.

RECTRICAL DEPARTMENT.

BLEOTRIOAL DEPARTMENT,
Spiden operativel: Arcs. 4 annp. mag.; power,
2 phases 00 cycles.
Tollago; power, 220.
City lighting contracts. Hours lighted per
pear: Arc. 4.000.
No public arcs, 252. Price per year, 400.
Commercial lighting; No. Incand., 300.
Price current per lew. In., gross 5c.
Powe circults: No. motors, 142.
Output of station, lew. Inc. for year, 0,000,000.
Gravating power used: Water.
Power jurchased from Southern Power Co.

Sak Kill Gas Co., Rook Hill. Ml.: 80. Er.: 80.

Geberal office, 1142 Real Estato Trust Bidg.
Capital stock, \$80,000.
Bonds, \$80,0001 duo 1013; Interest, fi p. c.
Freskleit, John D. Shatluck,
Redy and Ireas, fi U. Worrell,
Par, neanl, K. D. Wharton,
Bagineer, J. S. M. Wharton,
Bagineer, J. S. M. Wharton,
Soperintendent, E. R. Guard,
New bus, mgc, E. H. Guard,
New Josephalentiellon, R.700,000 c. f.
Bolder terparelly, 20,000 c. f.
Bolder terparelly, 20,000 c. f.
Bolder personne, 3.4 fm.
Bas, day's send out, 25,000 c. f.
Biles of mulus, upproximate, 12.

Bireet main pressures, max, 84 ld.1 i Street main pressures, max, 34 [6, 1] [0, 4]
Annust sales, approx., 0,000,000 c. f. Gas unaccounted for, 11,5 p.
Pop. of city, 7,210; of dist, supplied, 8, No., cotsamers, 400.
No. meters, reg., 200; prepays, 250.
Price, of gas: Iright and Fuel, gross, not, 51,05 to \$1.
No. ranges, 250; hoaters, 150; water in \$0.
No. countercial gas are lamps, 100.
Supplies Rook Hill.

South Carolina Light, Power and Railway Octabers.

RRs.: Gionn Springs, Chas. & West, O.
Caro., Olimbifold & O. Exci So.

Cart., Olischfield & O. Ex., 180.
(For capitalization bonds, etc., see Appe President, P. O. Goesier.
Viceptea, F. H. Kuoz...
Secretary and irosanter, F. B. Jashor.
General mgc., F. H. Knoz..
Sapp. and new buz. mgr., Alax. Wyne Process manufacture. Coll.
Price coll per ton, delivered, 48,55.
Candiepoprer, 171, catorife valus, 625 B.
Annual production. 2,000,000 c. f.
Holder pressure, max., 38 in., Miles of mains. 10.
Birest main pressures, max., 38 in.; mid.
Mex. day's send out, 85,000 c. f.

to.

Max. day's send out, 85,000 c. f.
Anieni sales, approx., 30,000,000 c. f.
Gas uencounted for, 10 p. c.
Pop. city, 17,5171 data supplied, 8,500.
No. consumers. 025...
No. meters. reg., 410; prepay., 515.
Price gas; Light and Fuel, \$1,50. Disc.
5 to 20 p. c.
Hagges in the. 625; heaters, 275; water.
ors, 425.
No. commercial gas are lamps, 225.
Supplies Spartsubarg.

Bupplies Spatishberg.

BLEOTRICAL DEPARTMENT.

System operated: Arc. D. G., mid. series cand., A. C. I power, A. C. 8 phas cycle.

Blatton renerating capacity, 10,600 b. p. Vollage: Arcs. series | lucand., 1201 p. 110,020-3,200.

Oity lighting contract: Hours lighted year, 4,180.

No. public arcs. 320; 4 sup. mag. Pric. year, 4,180.

No. public lineand., 512; 75 wait. Price year, 2c. kw.

Commercial lighting: Price per kw. br., 120; Disc., 10 to 60 p. c. Domesite same.

Power circults: No. molots, 150; price per

same.

Same circults; No; molors, 150; pricepo int. 1.5c. to 8.38c. Disc., 10 p. c.

Other uses: Automobile charging sets (fers), 4c. per kw. hs.

Output of stations, kw./hrs. for year, 28,12

Generaling power used, Water and 8 rated 10,500 h.p.

Cort of station boller cost per ton, \$2.05.



DISCRIMINATION la prices charged utilitée for ell coal, és well es discrimination utilities in service and rates and the power of commissions to reg and control discrimination, can best be studied in OFFICIAL PUBLIC SERVICE REPORTS, 74 Broadway, New

Florence Sas Co., Florence. BR.: A. C. L. Ex.: So.

No. metors, reg., 10,020; prepay, 972.
Proble (Fair Light and Pais, E.L.0.
Proble (Welshate, lemy, 613.
No. hours know is thirted per year, 4,905;
Raunen in use, 2,531, bouters, 7,439; want houters, 17,531, bouters, 7,439; want No. commercial feas are lamps, 1,246;
Supplies Charleston, S. C.

BLECTRICAL DEPARTMENT,

SOUTH CAROLINA

RHODE ISLAND—SOUTH CAROLINA

Blentajone Valley fine and Electric Co., Woomouket. BR.: X. Y., X. & R. inc.; Ad.; E. & P.

Crudor manuscoment of Rtone & Webster.

(For opplication and officers see this comparison of the Appendix.)

Figure 1 of the Appendix.)

Superintender, Server R. Nason.

Gas supplied under this prosser from Paystrone of the Crudor of the Calorife value, for B. t. a.

Gas prechated, 110,671,000 c. f.

Annuel suits, for the R. R. d.

Annuel suits, for the R. d. d.

Annuel suits, repreceive, 750,000 c. f.

Gas vanceounted for, 37 p. c. f.

On dist. supplied, 85,000 c. c. f.

No. motors, rec. (1977, preced. 25 les.

Price fest 'Linde and Frail' \$1,000 for Discount, \$20,000 c. f.

Price fest 'Linde and Frail' \$1,000 for Discount, \$20,000 c. f.

Price fest 'Linde and Frail' \$1,000 for Discounts, \$20,000 c. f.

France fest 'Linde and Frail' \$1,000 for Discounts, \$1,000 for Discounts, \$1,000 for Discounts for a Sufficient Langer, \$100 for Supplies Woomscreet and R. Sankhägeld, R. I.

SLECTRICAL DEFAUTMENT.
Operated under the name of Binchetone Val.
107 San & Bierric Co., Partucket and
Englishmenter Director. System operated: Area, mun. D. C.; com,

and 3 planes, 00 cycles. Power, A. C., alcoale and 3 planes, 00 cycles.

Concerning expacity, light and pwr, 20,000 km,
Volunge, con. service: lacand., 110; power,
220-LGG.

CHY Herbitz contract: Flours lighted par
years, sive and humand, all night, wery
No. public area, 400; 4 map.
No. public area, 400; 4 map.
No. public incrnat., 140; 30 c. p.; 324, 320
Commercial lighting: No. area, 01; themd.,
Indee current pre lev. hi., gross: Darwing, in
Ples current pre lev. hi., gross: Darwing, in
Ples wer should: Monaco 2, 2, 400 h. p.
Power current: Monacoket, 12.6c. Discounts, in
Power current pre lev. hi., gross: all office out in kw. her m., plane
office pre lev. hi., with discount 3 p., c. to
societ, per lev. in., with discount 3 p., c. to
societ, same, except current charge in
Chiffs for lev. hi. ton multicollancous,
in Vocasioniciet.

Commercial and purchased), Apone.
Goografice, power used. Stram and Vasce.
Hared (steam), 31,105 and (water) 2288

Prin. 185014, 3, C. VYTIMIN Prin. 185014, 3, C. VYTIMIN NOW his might, 3, C. Will Strees musturiants, L.O. Will Strees on prince and System operated: Arc. UC nmp., A. C. series St. arcsi nessed, 2500-volt. andre brase; poves: 2500-volt. 3 plass, 500-volt. D. C.; like G.000-volt. 3 plass, and 18,200-volt. 8

Southern Public Utilities Co., Effect: Char. & West.; P. & N. P. B. Ed. deparating expansity: City station, 5,000 km², A. C., 2,500 km. D. C. in m, seen and something expansity: City station, 5,000 km², A. C., 2,500 km. D. C. in m, seen and something expansity. Edge of the city of the connected highling: No. see, 35; No. seeles increased, 11.

Files current per lev. M. gross and not, 10c. for the city of the ci

RRe. A. C. L.; Col., New. & Landens; S. A. L.; So. S. Br.: N. T.; Col. & Geo. Co. Controlled by Columbia Ballway Gas & Else-The Columbia are Light Co., Columbia.

The Congulationation, braif, etc., see Appendix.)
Fresident mat fresaurer, E. W. Robertson, Recrebery, R. Charlton Wright.
Roce mer, and hur, stew, V. S. Wright.
New business manager, J. W. Strole.
Process manufacture, L. W.
Price of the per and, deliversed, Sc.
Cradit-power, 21: coloritie value, 575 R. t.
Ammal production, 180,000,000, c. f.
Rocks fact aboles conjectly, 800,000 c. f.
Rocks fact aboles conjectly, 800,000 c. f.
Roke fact send out 100,000 c. f.
Roke fact send out 100,000 c. f.
Roke fact send out 100,000 c. f.
Roke fact and pressures mix. 3 hz; min. 3 tz.
Prove plant streed 257 h. p.
Ammal state, approx. 42.
Gas maccounted for, 30 p. 60,000 c. f.
Roke of mains approx. 42.
Gas microlated 257 h. p.
Roy of 21,210,100,100 c. f.
Roy of 21,210,100,100 c. f.
Ride of Colories and State approx. 2000 c. f.
Ride of Colories and State and State approx. 2000 c. f.
Ride c. L. Rafor f. 250 c. f. 250 c. f.
Ride c. L. Rafor f. 250 c. f. 750 c. f. 750

General office, Charlotte, President, Z. Y. Traylor. President, Z. Y. Traylor. President, Z. Y. Traylor. President, Z. Y. Traylor. General manage, B. F. T. Branch agr., Jus. McCabe, T. W. Morther and A. T. Traylor. Process montriering. E. T. Process montriering. Low Pur., square, Mill Power St. Process montriering. Low Pur. square, Mill Power St. Process montriering. Low Process, E. Compley, Process, L. Geller, General, Geller, General of Sand Out., 20,00 Miller, dura send out., 20,00 Miller, durant, 20,00 Miller, durant, 20,00 Miller, durant, 20,00 Miller, duranter, 20,00 Miller, are all that momey and science can produce, of manties and burner free upon official a USALYTE

J. I. ROBIN, 130th St. and Park Ave.,

SOUTH CAROLINA. Town population, 1,624,840.

Price sna: Light and Pucl. gross, \$1.05; nct, \$1.50. \$1.20. No. Fig. 500: heaters, 115; water heaters, No. commercial gas are lamps, \$5. Supplies Anderson and subtribs. Anderson Can and Utilities Co., Anderson, BER.: Chos. & West. C.: Blue Ridge; So. Ex.: So.

Cuptal stock, pref., 51,500,000 cuth, \$1,000,000 cuth, \$1,000,000 cuth, \$1,500,000 cuth, \$1

Chediopower, 20.
Miles of matine, approx. 71.08.
Abund sales, approx., 271.400,122 c. g.
Pop. city supplied, est., 80,000,
No. consumers, 10,002. CERCEMENT TO Anderson City Gas Co.)

Proxible street, \$100,000: the 1942: int. 6 p. c.

Proxibating E. R. Richton, Jr.

Percentent, D. R. Richton, Jr.

Percentent, D. R. Berton, Jr.

Non mar. Horton, Lowe.

Non mar. Horton, Lowe.

Price of the per lond, delivered, \$10 for \$11 dgr.

Candide-pression, Mrs. Horton, Lough, Candide-pression, Jr.

Annual proceeding, \$25,000,00 c. f.

Annual proceding, \$25,000,00 c. f.

Researce carried, mar., 10 lbs.; min. S has dannal states, approx. 12629,000 c. f.

Pressure carried, mar., 10 lbs.; min. \$10 dgr. branch and an improx. 12629,000 c. f.

Pressure carried, mar., 10 lbs.; min. \$10 dgr. branch and an improx. 12629,000 c. f.

No. Consumors, \$65,000 c. f.

No. Deliver, 195., \$26,000 c. f.

You can increase the efficiency of your compressors by replacing pour old valves with MESTA AUTOMATIC PLATE VALVES (Iversun Patent). Write for Bulletin "D." us., 38£; prepay., 261.

MESTA MACHINE COMPANY

PITTSBURCH, PA.

NUFACTURED GAS, CITY

630

RHODE 181.AND — continued

Bluckstone Valley das and Bleetric Co. Woomsocket Division, Woomsocket — continued

Monnacket Invision. Woonsocket
—continued
Voltage, com. service: Incund., 110220; power, 110-220-550.
Miles of overhead wives, 2,432; undorground calles, 3.6 miles.
City lighting contract; Hours lighted
per year, nees and incand., 4,000.
No. public lucand., 332-1,000 c. p., at
\$51 per year; 333-500 c. p., at \$60;
297-100 c. p. at \$61; 3,227-100 c. p.,
at \$23.40; ib.250 c. p., at \$56, 23050 c. p. at \$16.20; 8-10 watt and 3225 watt.
Commercial lighting: No. ares, 8; incond., 28,330.51 kw.
Frice com. current, net 3 to 0c.
Price, domes, current pur kw. hr.,
kross: l'awtacket and Woonsocket, 10.5c; discounte, 1/2 pur
kw. hr.
Power circules; Motors, 44,328 kw.
Power circules; Motors, 44,328 kg.
Power circules; Motors, 45,308 kg.
Power circules; Motors, 44,328 kg.
Power circules; Motors, 44,328 kg.
Power circules; Motors, 44,328 kg.
Power circules; Motors, 45,308 kg.
Power circules; Motors, 46,308 kg.
Power

SOUTH CAROLINA

ANDWRSON

Anderson Gas and Utilities Co., Ander-

LI Chas. & West. C.; Blue Ridge; So. and P. & N. RRai

Capital stock, \$100,000.
Boids, \$25,000; due, 1948; int., 8%.
Pres., E. R. Horton.
Socy, E. R. Horton, Jr.
Treas., E. R. Horton, Jr.
Gen, mgr. and ongr., E. R. Horton, Jr.
Process manufacture, Lowe.
I'rice of coke per ton, delivered, \$8 to
\$10.

Process manufacture, Love.

Price of coke per ton, delivered, \$8 to \$10.

Price of coke per ton, delivered, 7.3c.
Candis-power, 22.
Catorifo vatue, 600 B. t. u.
Annual production, 26,470,000 cu. ft.
(18a holder capacity, 65,000 cu. ft. and
i pressure tunk, 20,000 cu. ft.
Holder pressure, max, 25 in.
Max. day's sond-out, 100,000 cu. ft.
Miles of mains, 16, high pressure.
Prossure carried, max., 10 lbs.; min.,
3 lbs., aver., 6 lbs.
Annual sales, approximate, 19,870,000
cu. ft.
(18a unaccounted for, 22'4.
Pop. city, cst., 18,000; nop. of dist.
supplied, 9,000.
No. consumers, 780.
No. meters, roy, 663; prepay., 101.
Prico gas: Light and Fuch, gross,
first 6,000 cu. ft., \$2.15; all over 10,000
cu. ft., \$2.15; all over 10,000
cu. ft., \$2.15; all over 10,000
cu. ft. \$1.50 per 1,000. Discount,
10% ten day.
No. ranges, 883; heaters, 150; water
heaters, 125.
No. commercial gas are lamps, 16.
Supplios Anderson and suburbs.

CHARLESTON

Charleston Councildated Rollway and Lighting Co., Charleston. RRs.: A. C. L.: So.; S. A. L.: Car. & V. S. Ba.: B. & C. Co.; Clyde 8S.; Sea Isl. Co.; C. SS. Co.; Phila. & N. O.; So. Transf.; Am.-H.; Luckenbach; Crare; United Fruit Line.

(Leaned from Charleston Consolidated Railway, One & Pice. Co. for 29 years from 1910.)

Controlled by United Gas Impt. Co., Philadolphia, Fa.
Capital stock, prof., auth., \$1,500,000; Issued, \$1500,000; com., auth., \$2,000,000; Issued, \$1,500,000.
Pres., P. H. Cadsdon, Phila., Pa. Vice-pres., Stuart Cooper.
Rocy, G. W. Curran, Phila., Pa.
Trens, I. W. Morrie, Phila., Pa.
Gen. mgr., B. Cooper.
Geory, G. W. Curran, Phila., Pa.
Gen. mgr., B. Cooper.
Genmorolal agt., J. P. Connolly.
Engr., gas dopl., R. C. Hill.,
Engr., gas dopl., R. C. Hill.,
Engr., gas dopl., R. C. Hill.,
Process of manufacture, Lowe (3-7 ft.
6 lh.; orthurrettor gas sets.)
Una oil used, 1.151,700 gals.
Annual production, water gas, 364,752,000 cu. ft.
Price of fuel per ton, dolivored, doke,
\$11.08; conh. 5.36c; cil per gal.,
1.520.

Price of fuel per ton, delivored, doke, 11.08; cont. 6.36c; cili per gal., 120; cont. 6.40c; cont. 6.40c;

Diestrical Department.

Bleetrical Department.

System operated: Incand., A. C., 60 oyale, single phase; power, single phase A. C. and 550 v. D. C.

Generating capacity: Total, 12,500 kv.a.
Voltage: Aros, series 8.4 amp, St.
Light; incand., 110-2300; power, 220-440-650-2300-2200-6500-12,200.

Miles of overhead wires, 266.33.
City lighting contract: Hours lighted per year acc (all night), 4,000; incand., 1,553 hrs. (haif night).
No, public secies incand., 730-338 watt; price per year, 464.
No, public secies incand., 730-338 watt; price per year, 444 (all night); \$20 (haif night).
Commorcial lighting; No, incand., 22, 104 to 4c, Min, bill, 50c per moter.
Suburban rate, not, 12c to 6e. Min, bill, 51 per meter per moth.
Power: No, motors, 1,035, price per kw, hr.; Demand obargo, \$2,00 is 15c. Other tases, Rullivay.
Output of station, kw, hrs. for year, 22,083,344.

Output of station, kw. hrs. for year, 22,063,344.

Concrating power used, Steam; rated hp., 4,688.
Cost of station bolter coal per ton, \$5.10.

COLUMBIA

The Columbia Gas Light Co., Columbia. RRs.: A. C. I.; Col., New. & Laurens; B. A. L.; So. S. Ba.; N. Y.; Col. & Geo. Co.

Controlled by Columbia Railway, Gas & Electric Co. (For canitalization, bonds, etc., ase Financial Report.) Fres., W. S. Harstow, Suc'y, C. N. Wilson

Trong, J. P. Campbell.
Pur. ngt., E. G. Nicols.
Sales myr and suyt., H. O. Britt.
Process manufacture, Coal and Lowe.
Coal carbenized, 10,910 tons; gas of the coal carbenized and sold; Coke, 7,119 tons; ter, 146,353 gais.
Calorifa value, 660 B. t. U.
Price of coal per tun, delivered, \$5.60; oll par kal., 8.44c.
Total kas holder capacity, \$60,000 oll ft.
Holder pressure of in.
Stoam plant, rated, 237 hp.
Max. days sond-nit, 913,000 ol. ft.
Miles af malus, appress, 60.
Stroot main pressures, max., 6 in.]
Migh pressure mains, 3 miles; pressure, 101s, 303; av. diam., 1.26 in.
Annual belge, 1944 86,600 cl., ft.
Sales divided Dom., 65%; indus., 5%.
(the unaccounted for 0.41%.
Pop. city, 36,5241 pop. dist. supplied, the same.

Price of kast Sliding scale, First 10,000 cu., ft., not, \$1.60; maxt 20,000 cl., \$1.45; ever \$0,000 cu. ft.
not, \$1.40; min, bill, 90a net. Ten conts added acter lott of month on tankers in use, 3,600; houters, 1,125; water-hoaters, 1,230.
Supplies Columbia.

PLORENCE

Florence Cas and Fuel Co., Florence. RR.1 A. C. I.

RR.1 A. C. I.

Capital stock, auth, \$72,000; Issued, \$73,000.

Bonds, \$63,000; due, 1925; int., 6%.

Fres., M. D. Lucas, Sov. and treas. S. W. Brown.

Gen. mgr. and pur. agt., S. W. Brown.
Supt. and engr., S. W. Brown.

Salen mgr. S. W. Brown.

Frocess of manufacture, Carburetted Water Clas.

Annual production, 29,000,000 cu. ft.

Av. price por ton, deliv., coke, \$9; oil her gai, 7½c.

Ly-products made: Tar, \$,000 gais.

Calorific value, standard, \$60 B. t. u.

Gas holder capacity, \$6,000 cu. ft.

Steam plant rated, 90 h. p.

High pressure mains, 21 miles; prassure, \$ ibs.

No. of services in the ground, 1,100; av. diam., \$4 in.

Max. day's send-out, 100,000 cu. ft.

Annual salos, 25,000,000 cu. ft.

Cas unaccounted for, 15%.

By-products sold: Tar, \$,000 gais.

Pop. of city, 11,000; dist. supplied, 9,000 mores, dom., 781.

No. meters, dom., 881. No. meters, dom., reg., 660; prepay, 221.

221, Priou gas: Light and fuol, gross, \$2.15; net, \$2.05. Hanges in use, 730; cookers and hot plates, 140; heaters, 650; water-heaters, circ., 200; auto., 50. Supplies Florence,

GREENVILLE

Southern Public Utilities Co., Greenville.

outhern Public Utilities Co., Greenville.
RRs.; Chas. & Wast.; C., Gr. & Knox.;
So. P. & N. R. R.

Clemeral office, Charintte, N. C.
For capitalisation and honds, see Financial Roport.
Press., D. G. Marshell,
Body, W. C. Parkor.
Treas., D. G. Calder.
Bingr., S. L. Duckett.
Bingr., S. L. Duckett.
Bingr., B. L. Duckett.
Branch mgr., W. B. Ellis, Jr.
Supt., H. E. MoDonold.
Pur. agt., Mill Powor Supply Co.
Sales mgr., H. E. McDonold.
Procoss manufacture, Lowe.
Coal carbonisod, 8,280 tons; gas oil
used, 105,461 gals.
Annual prod., coal gas. 101,285,156 ou.
ft.! Water-gas, 20,085,880 ou. ft.
By-products made:
tar, 45,146 gals.
Price of coal per ton, doi'd. \$5.85;
noke, \$5.00; oil, per gal., 12c.

BROWN'S DIRECTORY OF AMERICAN GAS COMPANIES

Continued on next page

RHODE ISLAND - continued

South County Public Bervice Co. West-

No. motors Indian. row. 74. Price gan: launt and fuel, \$1.47 (Conf. chause); service obstuc, 650 par

WOONSOOICHT.

Blackstone Valley figs and Electric Co., Wesneschet Division, Wasneschof. RR. N. Y., N. H. & IL

(For capitalisation, see Company's re-port in Holding seellon.) Pres. David Daly, Pawlucket, H. I. See'y, William 7, Crawford, Boston, W. Willam T. Genever. Boston.

Salos divided: Dom. 93.85; Indua., Cast other mas Co. 3%. Cast other mas Co. 3%. Pop. of city, 18.48it pop. of dist. supplied, 63.100.
No. consumers dom., 19.316; Indua., 65.

No. consumers; dom., 19.316; indua...

No. tooters, dom. and india., reg.,
10.65; prapay, 315.

Price of gas, Light and Fuel, gress,
frat 4.696 ou. ft., per months, \$1.30 per Mr. next 10.600 ou. ft. per
month, \$1.30 per Mr. next 10.600,
10. cont., \$1.30 per Mr. next 10.600,
10. cont. per 1.000 ou. ft., per
Month, 19.40 ou. ft., per
month.

Rangos in use. 0.410; cookers and hot
plates. 1,501; water-hosters, 1.414.
No. commercial gas are lamps, \$68.

Supplies Woonseckot, Union Villago
and Vyatorford.

Rientrical department operated under
the hame of Huckstone. Vulley
(Bas & Montricot, Pastuncket and
Woonsecket Direktone.

BROWN'S DIRECTORY OF AMERICAN GAS COMPANIES

SOUTH CAROLINA

жовинцик

Audergag Gas and Villities Co., Ander-RRET Chas, & West, C.; Dlue Ridge,

Process manufacture, 1900.

Price of olds por top, dollvered, \$2 to trice of oil per gal, delivered, \$2.20.

Calorific value, \$15 Ji.u.

Calorific value, \$10 Ji.u.

Calor

CHARLESTON

Ohnrieston Convolidated Hallway and Highling Co., Cherleton. Rus. A. C. L. Son, S. A. C., Car, K. E. S., Son, H. R. C., S. Co., Phila E. V. C., So., Transci, Luckonbach, Orace; United Feuil Line.

E. N. O.I. So. Trans. I. Am. 14.
Luckomboch; Orace; United Fruit
Line.

(Lessed from Charteston Coupsoldated
Railway, Oas & Elec. Co. for 89
years from 1912.

Confoled Dynamid Gas Impt. Co.
Confoled Dynamid Gas Impt. Co.
Capital stock, pref., auth., \$3,680,606;
inved, \$560,606; com. auth. \$3,600,606;
inved, \$1,600,606; pref.
Lillie, T. Hutchings.
Recy. G. W. Carren, L'hila., Pra.
Tosan, av. Mooris, Phila., Pra.
Tosan, av. Mooris, Phil

No. public Wolsbach lamns, 261; price nor lamp per year, 61.25. Price includes to public, care, lighthese and board could be lighted per year, 1660. Av. consumption per famil, 3-1 du. ft. lamkes in use, 19,500; heaters, 10.500; writer-freeders, 100,500; year-freeders, 100, increases, 100, increases, 100, increases, 100; increases, 1

COLUMBIA

Heand River Pawer Co. Columbia. (Successor to the Columbia Cas Light (Co.)

RRs. A. C. I.; Col., New, & Jaures B. A. I. So. S. Hall N. Y.; Col. & Ueu, Co.

PLORENCE

Plorence Gas and Fuel Co., Plorence, .. RR.: A. C. I.

Capital stock, nuth., \$100,800; issued, \$12,000.
1016, \$23,000; due, \$12,50; int. \$55.
1016, \$23,000; due, \$12,50; int. \$55.
1016, \$23,000; due, \$12,50; int. \$55.
1016, mar. b. J. Lates.
1020, mar. and pur. agl., \$5. W. Brown.
1021, mar. due, \$5. Water Gas.
1021, due, \$13,000, \$10.
1021, due, \$10.
1021, \$10.
1021, due, \$

Continued on next page

MANUFACTURED GAS.

SOUTH CAROLINA - con

Poresce lies and Fuel Co. Fie continued continued

No. consumers, doni. 91s.

Price year light and tue, gro
nel, \$2.0s.
Itanice in use. 730; cookers
plates, 160; heaters, 558;
healer, cirk, 200; auto, 5
Buupiles Florance.

Southern Public Utilities Co., G: Rite.; Chas. & West.; C., Or. , So. P. & N. R. R.

(No roport 1926).

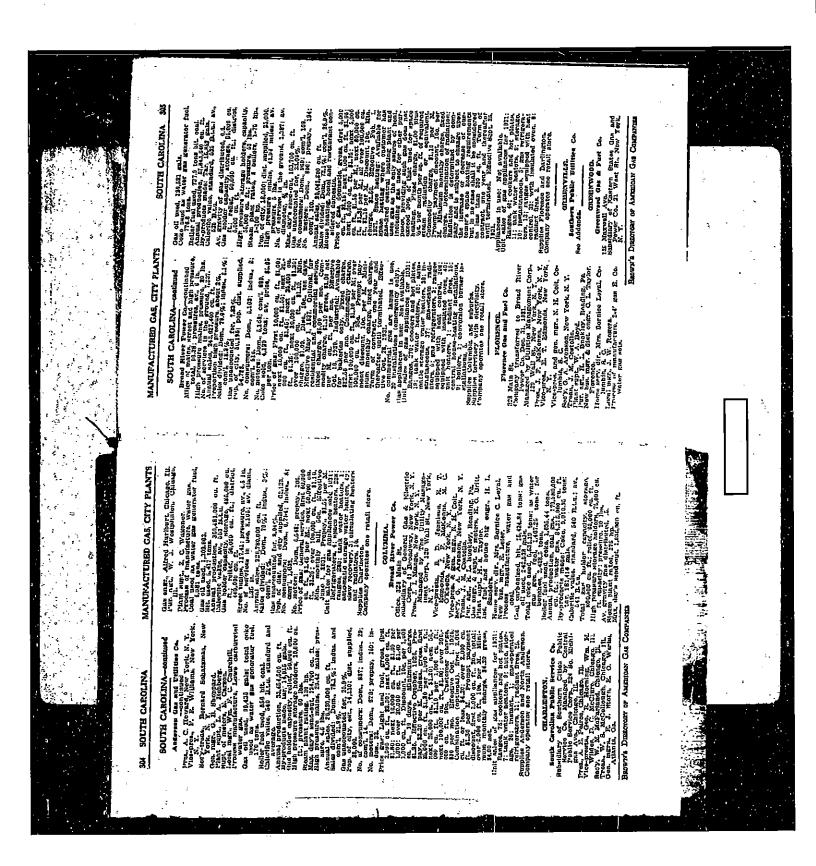
ROCK HILL

Noch IIIII Gas Co., Reck Hill.

Rit.: So.

Ooneral office, 214 Otts Building dolphis, Ps.
Caplini, stock, 82,999.
Caplini, stock, 82,999.
Caplini, stock, 82,999.
Caplini, stock, 1933, int., 15
Prox. W. P. H. Braum.
From W. P. H. Braum.
Stock, W. O. Muydin.
Supt. To Maydin.
Supt. Stock, W. P. H. Braum.
Grey, W. O. Muydin.
Supt. and new buz. mgr., 11.
Process menufacture Jows.
On Control of the Stock, 11.
Annual stock send-out, stock, 1940.
Annual sties, approx., 19,187,184
Chau unaccounted for, 54,99.
Pop. of oity, 8,380; pop. of displantation of the Stock, 1940.
Pop. of oity, 8,380; pop. of displantation of the Stock, 1940.
Pop. of oity, 8,380; pop. of displantation of the Stock, 1940.
Pop. of oity, 8,380; pop. of displantation of the Stock, 1940.
Pop. of oity, 1,300; per 108
Nont 5,000 ou. ft., 110; p.
Nov. 12,000 ou. ft., 110; p.
Nov. 12,000 ou. ft., 110; p.
Nov. 12,000 ou. ft., 110; p.
Nov. commercial gas are lamps.
Supplies Rock Hill.

BROWN'S DIRECTORY OF AL



OPERATING GAS COMPANIES

Note: Warren-Bristol Div. converted to natural sus September 17, 1963; Westorly Div. con-verted November 12, 1953.

RRODE ISLAND-SOUTH CAROLINA

PROVIDENCE

100 Wepbosate St. Plant, Sansatras Point, 100 Wepbosate St. Plant, Sansatras Point, Maudio Conglos, L. Zeille Flicher, Surviti S. Hartell, A. Livington Kelley, Edmind C. Maye, Heart B. Sam, Dans M. Swan, Pret.; B. Leals Flicher, E. Sam, Dans M. Swan, Pret.; B. Leals Flicher, E. Knowlton, Freet, St. Leals Richele, E. Knowlton, Freet, P. Leals Richele, E. Knowlton, Freet, and and sen, my: J. L. Johnson, M. Swan, C. Marker, J. L. Johnson, M. Swan, C. Marker, J. L. Johnson, M. Swan, C. Marker, Donad Wellcomb, Erickson, Gen, saids, ser.; Bara M. Swan, C. Marker, Bonde, and sales, ext. R. A. Taylor, Marr, nodes, and sales, ext. R. A. Taylor, Marr, nodes, and sales, ext. E. A. Taylor, Marr, nodes, and sales, E. Gilbart Silvon, Supe, customar service (Gorew V. Justin, Annt, supt. dater, i. E. R. Bampton, Pret. ast.; G. F. Sullite, Bond, and superior of dirt.; Kathleen Attinaon, Awartse specific gravity, i. A. Aversae specific gravity, i. A. Aversae specific gravity, i. A. Aversae specific gravity, i. A. Millen of main; Edst pressure, 224 miller, boaster, f. Miller of main; Edst pressure, 224 miller, street, 500.6 miles pressure av. 0 to 5 9 in. w., 0 to 5 Previdence Gas Campany (Natural)

4.5 Miles street, 006.5 miles pressure av. 0 to 9 hr. w.c.

Number of services: 77.130; av. diam. 1.437 in. Armual production: Waster gas, 1.151.707.000 cm. fr.: coke oven gas, 2.077.66.100 cm. fr.: propane gas, 2.077.66.100 cm. fr.: propane gas, 2.077.66.100 cm. fr.: propane cquiv.

Cas purchased: 1.081.46.000 cm. fr. B10 Rr.u. Armual saise: 4.014.463.000 cm. fr.

Saice divided: Res., 467.; house heating, 147.; kitchen heating, 127.; com., including heating. 147.; kitchen heating, 127.; com., including heating. Included an armacounted for: 27.716.000 cm. fr. dis unaccounted for: 8.77.716.000 cm. fr. fr. por mo. Trice, 3.03; kitchen heating, 5,377; com., 1.550; kitchen sexting, 5,377; com., 1.550; price of Gas; General. First 100 cm. ft. por mo. ft., 35c per C. mext 600 cm. ft., 33c per O.: next 450.00 cm. ft., 33c per O.: next 450.00 cm. ft., 33c per O.: 1.

ft., 25¢ per O' next 250,000 cu, ft., 22¢ per O'; anddithmai, 25¢ per C. Rest is great discout; 97, 11 days. Minimum menthy bill, 50¢. Effective Beecheve; 193.

Revidential heathus, including other user. First 100 m. ft. per mn., 81.01; nort 600 cu, ft., 85¢ per O'; nort 6,000 cu, ft., 85¢ per O'; additional, 51,5¢ per O.; Rate is great of additional, 51,5¢ per m. Effective Devember 1503.

Commorelal and indistrial. Demand charge, based on markinin ancheme degree for it, per ft., 95,00 per O; geommedition of the second charge, based on markinin ancheme formal, fist 20, one O; commandity charge. Rev 230,000 cm, ft., \$2,00 per E; additional, \$4,00 per M. Mithmum monthy bill, decommended and minima monthy bill, decommended and minimes of active mectors. Michelled and minimes of active mectors. Previdence, 8,475; Johns. 22; Previdence, 04,800; Smithfield, do; Wer-Nowle, 8481; total, 104,193.

Republishen City, Edy,07; distributed, 400; Wer-Nowley 104, distributed, 400; Wer-Nowley of company of company 104,135.

TIVERTON

Therton Gas Co. (Natural)

Main Road,
Pres.-tras.: Merrill Hawkins.
Sec. I Worrang F. Sankin.
Avorano specific valuer 1.000 d. 1.000 il.cu.
Avorano specific pravity: .6.

Qua purchased from Algorquia des Transmission

Alles of mail: 9.

Annual selection of the selection of t

vorified, 1054,).

SOUTH CAROLINA

GAB COMPANIES AND MAIN OFFICE

Pielment Natural Gus Ca., Inc. Charlotte, N.C. Rock Hill South Caroline Elected & Gus Co. Columbia South Caroline Gis Co. Columbia South Caroline Gis Co. Columbia South Caroline Gis Co. Editors Sunter Gas and Power Co. Educator Adiana Gas Light Co.
Clinton-Newborry Natural Gas Authority Newborry (Greenwood) Commission of Public Works
Lettrens Natural Gas System
Peoples Gas Co.
Figuresor

North Anderson Anderson
North Augusta, Ga.
Rock Ell.
Sparimburg Sparimburg Sparimburg
Vaterallo
Vaterallo
Wort Columbia
Octombur COMMUNITIES SERVED AND INDEX TO OPERATING DATA Eu Cairo Columbia
Florence Florence
Cultory Court Luncors
Greenville Greenville
Carenvood
Lourren
Newberry Newberry

Ett. Claire

Atleen
Anderson
Anderson
Arden
Arden
Arden
Columbia
Charter
Charter
Charter
Charter
Charter
Columbia
Deritagtos
Deritagtos

OPERATING DATA

Light Company (Natural)

Addisory services draished by Shops and Webstor M. Sarvice Gory. 10 Bread Bl., New York 4, N.Y. Barvice Gory. 10 Bread Bl., New York 4, N.Y. I'er officials see company's report. Atlanta, Ga. Lucal surg.; If W. Thompson.

Authors 180 %.

Local Muger: If W. Thompson.

Average precisit strawity: 6.

Average precisit strawity: 6.

Average precisit strawity: 6.

Annual production: 120 miles 3 in. equiv.

Number of services: 68%. 18 in. equiv.

Number of consumer: Res., 44%; com., 44%.

Sale divided Ros., 180%; com., 44%.

Number of consumer: Res., 44%; com., 14%.

Appliances sold., 1993; Ranges, 8; refrigerators, 2, 4, population: 18,000 (set.).

Number of supposed to research street.

Appliances sold., 1993; Ranges, 8; refrigerators, 2, 4, population: 18,000 (set.).

Robot: Company converted to matural gas December 2, 1993.

Population: 18,000 (set.).

Population: Atlem.

Population: 2,003. Annual production above, includes Noton: Company converted to matural gas December 2, 1993. Annual production above, includes Noton: december 2, 1993. Annual production above, includes Noton: december 3, 1993. Annual production above, includes Noton: december 3

ANDERSON

Pirchaean Nataral Can Can, Inc. (Natural)
303 N. Main St.; general office, Charlotte, N.C. Fr corrective personnel, see company's report, Charlotte, N.C.
Mer. J. L. C. Binck, M.C.
Altitude: 783 H. L. C. Binck, M. C.
Altitude: 783 H. L. C. Binck, M. C.
Calorific value: 1,000 B.t.u.
Average specific gravity: 63,000 cu. ft.
Gan bolder capacity: 83,000 cu. ft.
Gan bolder capacity: 83,000 cu. ft.
Annual sales is Subgravity of the contract of the state of consumers is 1,709.
Furry or Gas: See company's report, Charlotta, N.C.
Supples: Anderson and North Anderson.

CHABLESTON

For executive presumed see company's report to Eddening Section.

Supp. gas. 69. C. Meeter, Columbia, E.C.

Per. spr. 0. C. Meeter, Columbia, E.C.

Calcoff values to Avenera. Libel M.L.

Average specific gravity: 65.

Randby processes Waive gas and LR-Gas.

Gas holder capacity: Sorage, 745,000 cu. ft.; recipies 50,000 cu. ft.

LR-Gas storage capacity: 4 tanks, 30,000 gala. Bouth Carelina Riectria & Gas Co. (Natural) 141 Meeting St.; main office, 328 Main St., Columbia,

Annual preduction; Water gas, 503,487,000 cu. ft.; LP-Gas, 108,504,000 cu. ft.; Natural gas parchiased: 7,608,000 cu. ft. from wholly coven subsidiary South Carolina Natural Gas Co. Miles of maint Bligh processes, 61 low presents,

Annual sales: 040,412,000 cu. ft.
Balsa divided: 1 Red., 0175: norm. 1857; indux, 37c.
Maximum day's sond-mit 5,120,000 cu. ft.
Clas unsoccunted for 182,104,100 cu. ft.
Clas unsoccunted for 182,104,100 cu. ft.
Indus., 4; tatal, 11,173.
Indus., 4; tatal, 11,173.
Indus., 4; tatal, 11,173.
Free of Consumants: Red., 10,600; com., 1,571; Indus., 4; tatal, 11,170.
Free of Clast (indus) sarvice. First 200 cu. ft.
Free of Clast (indus) sarvice. First 200 cu. ft.
or, 174 per O; saddicinal, 126 per O; rest 100,000
cu. ft., 174 per O; saddicinal, 126 per O; Richmun monthly bill, 81,10, Kfferice Sanvary 4, 1864.
Scolumerical heating. First 200 cu. ft. or less per ne., 81,101 next Roo cu. ft. or less per ne., 81,216 per O; addicional, 126 per O; Richmun monthly bill, 81,10. Effective January 4, 1004.
All rates are not sand are subject to purchased as as cost adjustment.
All rates are not addictional, 10 per Destruction and Securities.
Number of suppless of 12 gas department.
Number of suppless of 12 gas department.
Pepulston Thomas of 12 gas department.

office Company converted to natural gas January 1016s. Production and sales data above are for 108s when water gas was served.

Pirdmani Natural Gas Ca., Inc. (Propensedir)

116 Min St.
Ganeral officer Cherlotte, N.C.
For officials, see company's report, Charlotte, N.C.
Sunt.: E. W. Raile.
Calcelfic wither 1,530 E. L.u.
Average presents atomate abelear: 2,500 cm. ft.
In Cas tenum storage abelear: 2,500 cm. ft.
I.P.Gus tenum storage abelear: 2,400 gals.
I.P.Gus tenum expective: 30,524,000 gals.
Annual production: 30,524,000 cm. ft., converted
to 1,000 E.L..
Annual seles: 12,007,000 cm. ft., converted to 1,000

Number of consumers: 288.
Paics by Gas: First 500 ca. ft. per mo., 554 per C; additional, 224 per Cs. Frosily, 13754 per C, 10 days. Minimum monthly bill; 3110. Milcelvo May 1, 1952.
Supplies: Cheere.
Population: 6,891

COLUMBIA

South Carothus Electric & Gas Co. (Nameral)
Others 339 Main St.
For executive personnel see company's report in Ealding Scalfon.
Pur. 451: G. C. Meetre.
Supt. sas plants J. R. Turkett.
Caloridio value i 1504 R.-tu.
Average specific gravity: db.
Standby processes i Oll gas and LP-Gas.
Standby processes i Oll gas and LP-Gas.
(Tas holder expacify: Bonder 1,150,000 cm. ft.; rolled; 60,000 cm. ft.; fulth pressure, 75,000 cm.
ft. st 50 lbs. pain.
LP-Que storage capacity: 5 tanks, 30,000 gala.
Cach.
Miles of main: Migh pressure, 112; low pressure, 150.

RHODE ISLANDSOUTH CAROLINA

Lond ron. Warren and Bristol dix.; Louter A Garrer, 3et, Warren.
Calorido value: 1.054 M.u.
Averace specific gravity: 1.054 M.u.
Gas holder capacity: 1.054 M.u.
Shroet main: 18th pressure, 16.25 miles, 2b to 5 M.r.
Number of services; 4.054.
Gas preclased: 2.03.114,000 cu. ft. from Alsonquin 1.05 M.r.
Annual production, standby: 378,100 cu. ft. LP-

Annual production, adminotor integrated and annual production, adminotor integrated advised a 156,772,100 cu. ft.

Salea divided: Resa, 49%; house heating, 27%; c.

com., 11%; fadius, 13%.

Number of consumors: Resa, 40.26; other, 407.

Pelco of Gas General rate & First 100 cu. ft.

Pelco of Gas General rate & First 100 cu. ft.

Pelco of Gas General rate & First 100 cu. ft.

Effective, Erdstol and Warren, Soptember 17, 1163; Worrerly, November 12, 1863.

Residential heating and/or waver heating, fnResidential heating and/or waver heating, fngeneral per cu. Hulmuna monthly bill, \$1.00. Effective for per C: additional, 136 per C. additional, 136 per C. Hulmuna monthly bill, \$1.00. Effective for general and Warren, Eggember 17, 1963; West- it Bristol and Warren, Eggember 17, 1963; West- it Bristol and Warren, Eggember 17, 1963; West- it Communities supplied and number of active mon of Communities augulied and number of active mon of Communities augulied and number of active mon of Lates 18, 1813.

Population: Detrifer, \$8,213.

PROVIDENCE

Providence Gas Centrollers

Providence Gas Centrollers

100 Wepbouser St.: plant, Smastras Point, Directors: DeForet W. Abd. Henry S. Chafes, G. Maurice Conneton, R. Louis Fleichber, A. Livingston Kalley, Educated W. Man, Electrol. J. Exceller Williams, Ray B. Owen, D. Dasson Brown, L. E. Knowlion, Estr. victories, and ser. Arthur E. Erickson.

Pres.: S. Leile Fleicher, Frens, E. Knowlion, P. Treas, and ser.: Arthur E. Erickson.

Asst. trens. and ser. Arthur E. Erickson.

Asst. trens. and ser.: Arthur E. Erickson.

Asst. trens. and ser.: Arthur E. Erickson.

Asst. trens. and ser.: Arthur E. Erickson.

Nat. trens. and ser.: Arthur E. Erickson.

Supt. of mix. and ditter.: A. William Olsen.

Supt. of curtonor service: George V. Justin.

Else. and: Charter W. Frourachio.

Planning curt.: Irving J. Trens.

Planning curt.: Irving J. Trens.

Planning curt.: Irving J. Trens.

Mgr. indus and com. selest.: E. Gilbert Silven.

Mgr. indus. and com. selest.: E. Gilbert Silven.

Average specific gravity.

And on main: Elic pressure, 288 i booster. 5: Silven.

Number of sorvices. 77,551. av. diam., 1,775 in.

Out purchancel. 2,77,269,500 cu. ft. from Algen.

Quin Gan Transmission Co.

OPERATING GAS COMPANIES

Annual production, standby: Oll gans, 18,382,000 cu. ft., suppose East, 1056,000 cu. ft., supp

TIVERTON

Therion Gre Co. (Natural)
Male Road
Calorine value: 1,000 to 1,050 Batu.
Average specific gravity: 6.
Gas purchased from Algoriquia Gas

Miles of main: 9.

Annual sules: 75,52,960 cu. ft.

Cas unaccounted for: 3.9%.

Number of meters: 573.

Price of Gau: First 200 cu. ft. per mo., ft.10;

Price of Gau: First 200 cu. ft. 136; per C; next 3,000 cu. ft.

146; per C; additional, 86 per C; next 3,000 cu. ft.

156; Effective November 20, 1363.

Company with appliances.

Company with appliances.

Number of employees: g.

Number of employees: g.

Nopaletin: Civ. 4,800; dist., 1,000.

(No recent data available from company.)

SOUTH CAROLINA GAS COMPANIES AND MAIN OFFICE

Atlanta Gas Light Co. Atlanta, Ga. Cilaton-Newborry Natural Gas Authority Newberry

North Anderson
North Anderson
North Augusta
Rook Eill
Sparsanburg
Sparsanburg
Sparsanburg
Sparsanburg
Sumber
Wettvelile
Wort Columbia SOUTH CAROLINA 343 COMMUNITIES SERVED AND INDEX TO OPERATING DATA Forest Agress Flarance Forest Agress Columbia Forest Columbia Conference Conf Laurens Natural Gue System Learens Feerles Gas Go. Feerles Natural Gas Co., Inc., Charlotte, N.G. Rock Hill Gas Co. OPERATING GAS COMPANIES Aften Anderson Anderson Anderson Anderson Charleston Charleston Columbia Columbia Darington Ean Charles Columbia

Annual salva: 1,010,138,000 cm. fr. Number of consumers: 1,815. Friet of Gas: See company's separate report. Company: sells spyliances. Supplies: Andarson and North Anderson. Population: 19,770. OPERATING DATA

itlante Cas Light Company (Noturel) ADCEN

1907 Richland Ave.
Advisory services furnished by Scone and Webster
Advisory service furnished Bt., New York 4, N.Y.
For afficials are company's combined report, Ave.

Local mart. Ga.
Local magr. E. W. Thompson.
Althode: 500 E. 048 E.t.a.
Avence specific gravity: 6.
Sirect main: 3.506 miles: 3 in. equiv.
Number of services: 1226.
Number of services: 1226.

141 Meeting St.; main otifice, 328 Main St., Columbia,

South Carolina Electric & Gas Co. (Natural) CHARITSTON

Supplies: Alicen and North Augusta. Number of employees: 8. Population: 20,080 (ext.).

Piedmont Natural Gas Co., Inc. MOSTROM

105 N. Main St.; grown office, Charlotte, N.C. For officials see company's combined report, Charlotte, N.C. Mr.: J. L. C. Black.

Milliade 723 H. C.

Chirifle value: 1,000 B.i.u.

Average specific gravity: 60,000 cs. ft.

Millies of main: 40 mains 8 fm. ecuiv, moluding 8.3 millis 9 in equiv, transmission main.

Gas purchased: 1,156,240,000 cs. ft. Arm Transcontinential Gas Pipo Line Corp.

continential Gas Pipo Line Corp.

Annual production: Propancent: grandby, 205,000 cs. ft.

Orenwood Commissioners of Public Works
Greenwood Gerenwood

Annual preduction: Waker grab, 14,001.500 cm.

P.: I.P-Cas, 3,127,000 cm. ft.

Rannal ands: 44,272,000 cm. ft.

Rannal ands: 44,272,000 cm. ft.

Rannal ands: 45,272,000 cm. ft.

Rannal divided: Res., 40%-5 com., 38%-5; indus., 6%
Rannan day's semi-out: 4,522,000 cm. ft.

On marcourted for: 104,16,700 cm. ft.

Number of consumers: Res., 10,887; com., 1,534;

Number of merms: 13,35; acricles First 200 cm. ft.

Price of Gas: General services First 200 cm. ft.

Or leas per mo., \$1,20; nox 800 cm. ft., 314¢ per

or leas per mo., \$1,20; nox 800 cm. ft., 314¢ per

or leas per mo., \$1,20; nox 800 cm. ft., 314¢ per

cm. ft., 18,6% per C; additional, 11,4% per C.

Minimum monthly bill, 41,10; Effective April 13, For executive personnel see company's report in Boldlag Section.

Sup. 22 dept.: J. L. Hanmond.
Pur. aga.: G. C. Meets, Columbit, S.C.
Hone service dis.: Mary Frances Kneece, Carroll
C. McDonald. Average. 1,043 R.t.n.
Calorific value: Average. 1,043 R.t.n.
Average specific gravity: d. G. McGos.
Standby processes i Waver gas and LP-Gas.
Standby processes i Waver gas and LP-Gas.
Cas holder capacity: Storage, 745,000 cm. ft.; rolief, 50,000 om. ft.
LP-Gas storage capacity: 4 tanks, 30,000 gala.
Miles of main: High pressure, 14: low pressure,
Miles of main: High pressure, 14: from whelly
owned subsidiary South Carollan Natural Gas

Residential service. Flort 200 cu. ft. or less par of the service and service and service to the service of the service of the service of the service of Minimum monthly bill, \$1.10. Effective of the service of the se 1954. Residential

April 13, 1064.
Commarcial breating (Charleston only), Flust
Commarcial breating (Charleston only), Flust
200 cn. ft. 204 per 0; nort 2,00c cn. ft., 2544 per 0;
42, 20,0c per 0; nort 2,00c cn. ft., 2544 per 0;
per month, 80,0c per C. Zinimum charge, \$1.25
per month, 80,0c per heating season. Effective
April 13, 106.
All rates are not and are subject to purchased
gas cost adjustment.

Supplies, Charleston ; also supplies territory with electricity. Number of employees: 70, gas department. Population: 75,000.

HA SOUTH CAROLINA

CHRITH

Jothe, N.G.
Supt., W. M. Worthy.
Calorific value; 1,330 B.L.,
Average specific gravity; 1,230 B.L.,
High pressure strongs holden; 25,000 cm. ft.
LP-Gis stronge capacity; 44,000 gals.
Miline of main 10, ft. miles 3 Hs. equiv.
Annual production; 10,607,000 cm. ft., converted
to 1,000 B.t.n.
Annual sales; 12,837,000 cm. ft., converted to 1,000
B.t.u. ase company's combined roport, Char-Reduent Natural Gat Co., Inc. (Proposacile)

Number of consumers: 225. Price of Gas: See company's report, Mount Airy, N.C. Supplies: Chester. Population: 6,303.

South Carellus Electric & Gas Co. (Natural) COLUMBIA

Office: \$29 Main St.
For executive personnel see company's report in 2. Ending Section 2. W. Chappell.
For ant. G. C. Meere.
Supt. and sept. I. W. Chappell.
Supt. and sept. I. W. Chappell.
Average profine arravity 1. G.
Average profine arravity 1. G.
Standby processes: Oil gas and LF-Gas.
Gas holder expactive: Low pressure, 1,065,000 ct.
ft.; relief, 60,000 ct. ft.; birth pressure, 75,000 g.
ft.; t. st. fol. 126. 254s.
LP-Gas storage capacity: 5 tanks, 80,000 gnis.

each.
Mige grain: Mgh pressure, 121; low prensure, 103; total, 230.
Gas purchased: 631,688,000 cu. ft. from wholly owned subsidiary South Carolina Natural Gas

Annual sales: 687,428,100 cm. ft.
Sales (divide: Res. 88%; com., 22%; indus., 10%.)
Maximum duv's send-cutt: 5,488,000 cm. ft.
Gas unaccounted for: 141,914,200 cm. ft.
Number of communers: Esc., 13,781; com., 1,529; indus., 4; volal, 14,534 cctive.
Number of meters: 1,5288 cctive.
Perice of Cas.; General service and residential service.

Company does not sell appliances. Supplies: Columbia, Ean Claire, Forest Acres and West Columbia; also supplies teartforn with

Number of employees: 109, gas department. Population: Dierict, 100,000.

Bouth Carolina Natural Gas Co. (Transmission)
Wholly-couned subsidiary of Borth Carolina Electrick Gas Co., 238 Main Re., Columbia, B.C.
Directors: J. M. Costollo, Bornio Butt, F. R.
McMeckin, B. C. McMeckin, C. M. Oyer, H. A.
Petti, D. T. Coloman.
Pres. i S. O. McMeckin, C. M. Oyer, H. A.
Vice-pres., Operations: R. McMockin.
Vice-pres. II. A. Petti, E. Ldier.
Vice-pres. and mer.: D. T. Coloman.

Treat. 1 G. M. Over.
Controller W. A. Ready.
Soc. and sast treat. I. F. Pearw.
Ast. controller J. M. Gusque.
Ast. controller J. M. Gusque.
Ast. see. and sast treat. B. E. Zeigler.
Child engr. I. F. Eader.
Gus pur, agr. 16. G. Meere.
Calorific value for Merke. 1,048 B.t.u.
Aversa specific gravity: I. M.
Transmision main: 1844 mile.
Transmision main: 1844 mile.
Gas purchased from Southern Matural Gas for Gas misconniced for: 1821.771/100 cu. ft.
Maximum days send-out: 18.00 cu. ft.
Gas nold to otty of Oranzeborz. B.C., and co
parant company. Both Caroline Electric & Gas
Co., Columbia and Obriderou. B.C., for resula
and for electric generating plant at Obsalescon.

Subsidiary of Consolidated Dellidas Corp., Florence, S.C. For offices, se company's report for Florence, S.C. Subridias Dealington. (No recent data available from company.) DARLINGTON Pauplus Gas Co. (Properts)

206 W. Brain St., Flarence, S.C.
Spindings of Consolitated Unities Corp., Florence, S.C.
Prat.: M. D. Lucsa,
Gen. mgr.: M. D. Lucsa, Jr.
Spiplies Pleasnee, Streence, **VLORENCE** Posples One Co. (Propensadir)

Seenin Caro Lina Cas Co. (Westerd.)
Subidiary of and managed by United Cities Utilities
Co., 1928 Merchandlie Mart., Chicago 54, III.
Pres.: Arthur K. Loc., Oblicato.
Exce. vice-pres. A. L. Selecto. Oblicato.
Vice-pres. and colar feature. P. A. Tay. Obleago.
Vice-pres. and colar feature. P. A. Tay. Obleago.
Vice-pres. and controller: L. H. Allim, Chicago.
Vice-pres. and controller: L. H. Allim, Chicago.
Dist. mgr.: P. E. Howard.
Colar mgr.: P. E. Howard.
Acretic predict gravity. 51.
Acretic predict gravity. 51.
Acretic predict gravity. 51.
All Mumber of services 1,180.
Gas purchased from Transcontingtal Gas Pipe Lina
Gas purchased from Transcontingtal Gas Pipe Lina

Corp.

Aurenta alsor: 2,770,001 therma.

Number of consumers: New, 521; com, 52; indus.

11; heating, 2; roth, 1,463.

12; heating, 10; housing project, 155; company of the consumers: New, 521; company of the company

Laurens Natural Cas System (Noture2)

LAGRENS

Phylinem Natural Gas Co., Inc. (Naturel)

CHEENVILLE

OPERATING GAS COMPANIES

Gales divided i Rea, 20% i com., 6% i Indus., 60%; hearthng, 13%.
Number of constancers Rea, 611; com., 67; iirMunder of constancers Rea, 611; com., 67; iirdins, 31 backing, 200; Rea, 611; com., 67; iirdins, 32 marking, 200; com. 21, 31, 30 per Rei nove
4,000 out. ft., 30¢ per Ri additional, 60¢ per Rei nove
4,000 out. ft., 30¢ per Ri additional, 60¢ per Rei nove
6,000 out. ft., 30¢ per Ri additional, 60¢ per Rei
11, 81.50. Exceptive May, 1, 1053.
Commercial services First 5,000 out. ft. per mo.
Commercial services First 5,000 out. ft. per mo.
Forestly, 5%, 1000 of month, Minimum monthly
bill, \$12.00. Exceptive May, 1, 1063.
System does not sell appliance.
System does not sell appliance.
System does not sell appliance. 21 E. Coffee St.

yor collisials, see company's combined report,
Charlotto, N.C.

Mr.: H. M. Duck,
Charlotto, N.C.

Mr.: H. M. Duck,
Charlotto, N.C.

Annual predic gravity: John Lt.

Annual predic gravity: John Ch. Lt.;
Annual predic gravity: John Ch. Lt.;
Annual predict gravity: John Ch. Lt.;
Annual gravity: Stonge, 131,000 cu. ft.;
Annual salus: 224,105,000 cu. ft.

Annual salus: 214,105,000 cu. ft.

Annual salus: 216,105,000 cu. ft.

Annual salus: 216,105,000 cu. ft.

Annual salus: 216,105,000 cu. ft.

Annual salus: 286,105,000 cu. ft.

NEWBERKY

Commissioners of Public Works (Natural)

CHEENWOOD

Charlotte, N.C. Company selb appliances, Supplies: Grecaville. Population; 58,161.

Mundupal utility.

Vice-dum.: Walter Berney.

Vice-dum.: Walter Berney.

Sochreme.: Enry C. Layton.

Connellment. E. Edubalmezer, James P. Slozn,
Confee mar.: Olimon, Wyman Shealy: Newberry.

Thomas W. Ward.

Thomas W. Ward.

Altitude: 420 ft.
Calcillo value: 1,000 E.t.n.

Average specific gravity: 46.

Offility has no Liy-das operations.

Miles of andri: 50 approximately; pressure 8 lbs.

Miles of andri: 50 approximately greater 8 lbs.

Miles of andri: 50 approximately greater 8 lbs.

Miles of andri: 50 approximately greater 8 lbs.

Pales of andri: 50 approximately greater 8 lbs.

Pales of Gas: First 800 m. ft. or less per mo.,

Erics of Gas: First 800 m. ft. or less per mo.,

Erics of Gas: First 800 m. ft. or less per mo.,

Erics of Gas: First 800 m. ft. or less per mo.,

Erics of Gas: First 800 m. ft. or less per mo.,

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Erics of Gas: First 800 m. ft. or less per mo.,

Erics of Gas: First 800 m. ft. or less per mo.,

Erics of Gas: First 800 m. ft. or less per mo.,

Erics of Gas: First 800 m. ft. or less per mo.,

Erics of Gas: First 800 m. ft. or less per m.

Commercial and industrial rate G-C. First 200 cm. ft. or less per mo., 61.50; most 4,800 cm. ft., 126, per C; most 1,800 cm. ft., 126, per C; most 8,000 cm. ft., 16, per C; most 200,000 cm. ft., 16, per C; most 200,000 cm. ft., 15,6 per C; most 500,000 cm. ft., 7,5,6 per C; addlifond. ft. per C; Minhaum monthly bill, \$1.50. Effortive 1,96. Ninhaum monthly bill, \$1.50. Supplies: Germwood, monthly bill, \$1.50. Supplies: Germwood, Troplaton: Gly does not sell appliances.

Supplies: Germwood, Co. of Ninhaum monthly bill, \$1.50. Supplies: Germwood, Troplaton: Gly and district, 13,000.

News. Office converted from propose-air to natural Aless: Otty converted from propose-air to natural Gr.

Roch Eill Can Co. (Propostandir)

121 Empino S.

Subaddinary of Pennsylvania & Southern Gas Co. Subaddinary of Pennsylvania & Southern Gas Co. Tennana. Pa., in Ending Section.

Local mayer: Herman Schild.
Calvelido value; et size in Ending Section.

Local mayer: Herman Schild.
Calvelido value; et size in Ending Section.

Local mayer: Herman Schild.

Annual substant 28 mullar.

Annual substant 49,447,500 ca. ft.

Annual substant 48; substant 48; substant 55; decltherms or less per mo. \$1.05 group. S. Till end.

Frice of Gas i General sarrido. First 15; decltherms or less per mo. \$1.05 group. S. Till end.

Dec dib. insert 155 declitherm, 8.175 group.

2,1894 for her per dib.; next 285 declitherm, 8.175 group.

2,1894 for her first next per dib.; next 285 declitherm, 8.175 group.

2,1894 for the stant 1,180 declitherm, 2,2805 for the per dib.; next 286 declitherm, 1,1805 for the per dib.; next 2,180 declitherm, 2,2805 for the per dib.; next 2,180 declitherm, 2,2905 for the per dib.; next 2,1805 declitherm, 2,2905 for the per dib.; next 2,1805 declitherm, 2,2905 for the per dib.; next 3,1905 for the Manistral system.
Commissioners: 10tm, M. L., Smith; D. D. Harris and San E. Willier.
Super. C. P. Tremsend.
Mittade: 500 M. Mariand.
Chocke value: 1,050 M.-t.
Newage specific gravity: 6.
Newage specific gravity: 1,050,
Mittade of generices: 1,050,
Mitt

Coip. Inmust sules: 400,000,000 en. ft.

Chasa-Newborry Natural Gas Anthority (Return!)

Municipal system.
P.O. Ecz. 301.
Commissioners: Chun, M. M. Wells: Dr. W. P.
Churder, T. R. Pitanon,
Mr. and curry: William R. Wies,
Altinde; 600 ft.
Alvania specific gravity: d.
Alvania specific specific specific d.
Alvania specific sp

51.50. Criffic does not sell appliances. Communities supplied and population: Clinton. 12,000: Nowberry, 22,000.

ROCK HELL

ANDERSON
Producent Natural & Co. 1se. (Natura)
105 N. Main St.; general offer, Carriotte, N.C.
Profulled use company's combined report, Charte, N.C.
Nero, N.C.
Nero, N.C.
Carlotte, N.C. houth Theren; she serve LP-On bond Minher of the destructor. Number of the destructor emissions 4. Prostation 1, 2,000. RHODE ISLANDSOUTH CAROLINA 369 South Caroline Slowish & Gas Cas. (Names) 115 Meeting No., main offer, 128 Main St., Columbia, | Pertst Acres Columbia Nerth Anderso Anderso Funitain Inn Nerth Annessa Nerth Control Caffeey Grafteey Greening Spartnahmer Spar COMMUNITIES SERVED AND ENDER TO OPERATING DATA SOUTH CAROLINA GAS COMPANTES AND MAIN OFFICE OPERATING DATA . Comman operative one rodall atom Applance and 1985; Comversion furners, 41 rance, 23; space britten, 20; senter brittens, 14, spables Little Compton, North Tiverion, Ports. OPELATENC GAS COMPANIES December 1984.

Pereldental water hearing, optional Prive 190 co. Fr. or Per Sec. Ball.

For or CR. Ball a grown: discount of the 184 co. and 184 co. or CR. Ball a grown: discount of the 184 co. and 184 co. or CR. Ball a grown: discount of the 184 co. or CR. Ball a grown: discount of the 184 co. or created the 184 co. o we do werelven; ilds.

The problem of the problem o OPERATING GAS COMPANIES onal, 25¢ per C. liste is groun; discount, day, Material monthly bill, 50¢. Effective TIVERTON Tiverton Cas Co. (Netural) Nata Read. Annual address 1876-251. The heating 1757: On Corn. 1155: Indus. 2252: The heating 1757: On Corn. 1155: Indus. 2252: The heating 1500. Annual dischement Idns. Addr.; althor, 447. Deer vos. 451: not 2,500 no. 72. Edit 100 et al. Deer vos. 451: not 2,500 no. 72. Edit 100 et al. Deer vos. 451: not 2,500 no. 72. Edit 100 et al. Deer vos. 451: not 2,500 no. 72. Edit 100 et al. Deer vos. 451: not 100 et al. Deer vos. 1740: Vestrol., 1741. Population: Deer vos. 1740: Vestrol., 1741. Population: Deer vos. 1740: Vestrol., 1741. Paris, of Cast Convert. First 100 cm. ft. yer mo. First vice of Cast Convert. First 100 cm. ft. 260 cm. ft. 225 yer C1. mark 4,000 cm. ft. 225 yer C2. mark 24,000 cm. ft. 225 yer C3. mark 24,000 cm. ft. 225 yer C3. mark 250,000 cm. ft. 225 yer C3. REGODE ISTAND

